

## erwin DI Suite

# Mapping Manager

## Quick Start User Guide – v9.3

### About Mapping Manager

Mapping Manager is a feature rich and intuitive graphical user interface (GUI) application which allows users to create, version and manage 'standards based' enterprise source to target mapping specifications for integration projects. The application has built in features to better manage the analysis and requirements aspects of the project along with various levels of documentation approvals for Systems Development Methodology (SDM) compliance and project delivery standards.

Mapping Manager enables users to automatically connect to, upload and import relational database metadata (technical and business), upload and share and collaborate on shared documents at many levels (the project, the system, the mapping specification) and dynamically build source to target mapping specifications by dragging and dropping data elements from the metadata browser. The Mapping Manager modules enables users to control versioning of mapping specifications, Impact Analysis at multiple levels (system, tables and columns), drive standards with shared 'user defined' transformations and audit various levels of compliance (data model standards, systems development methodology 'SDM' and Mapping Specification standards).

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## Intended Use

This document is a Quick-Start User Guide intended to train users on how to get quickly acclimated to the Mapping Manager application and using it to create dynamic metadata driven source to target mapping specifications. It is important to note this documents is not intended to be a fully detailed and in depth users guide. Thereby, this Quick-Start guide will cover only the basics in terms of the usability of the application. Many of the features and capabilities will not be covered in the Quick-Start User Guide.

Erwin, Inc. recommends clients procure onsite training or services for hands on training and mentoring of resources on usability and best practices regarding the use of Mapping Manager.

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## 1. Introduction to Mapping Manager

### 1.1 Enterprise Mapping Manager Modules

This section is intended for users of Mapping Manager who want to obtain an overview of the application.

In this section, you will learn:

- [About Mapping Manager](#)
- [Mapping Manager Modules](#)
- [Terminology](#)

### Mapping Manager Modules

The Enterprise Mapping Manager (EMM) is comprised of three modules. Each of the three modules represents a sequential workflow. Add Resource/Application User, Create Project (Resource Manager), Define Systems and upload metadata (Metadata Manager), create Mapping Specifications (Mapping Manager). The modules are listed below along with some of the key features comprising the workflow.

1. *Resource Manager*
2. *Metadata Manager*
3. *Mapping Manager*

#### Resource Manager:

The resource manager contains the administration features of the application which are creating roles, users, projects and assigning permissions to application users.

- [Create security roles](#)
- [Create application users and assign permissions and roles](#)
- [Create a project](#)
- [Assign application users to projects](#)
- [Enter Project Details](#)
- [Upload project files and manage documentation approvals](#)

#### Metadata Manager

The Metadata Manager is the modules where all the system analysis and documentation is stored. The modules allow users to create new systems, document the technical aspects of the system, specify connectivity details for multiple environments (dev, test, production etc.), upload system documentation and files at the system level and automatically import the technical and business metadata at the environment level where it will later be used by the Mapping Manager module to drag and drop data elements when building the source to target mapping specifications.

- [Add a system and enter systems analysis details.](#)
- [Add environments \(development, test production\).](#)
- [Upload system metadata.](#)
- [Upload system files and manage approvals.](#)

#### Mapping Manager

The Mapping Manager is the module which will be used most frequently by most users. The Mapping Manager allows users to create shared 'user defined' transformations that can be used to drive mapping standards across the enterprise. Once the shared transformations are defined users can create dynamic source to target mapping specifications by dragging and dropping items from the metadata browser to the integrated data grid. The mapping manager also has built in capabilities for versioning the mapping specifications, defining the source extract SQL, Definition of Update Strategies, integrated testing and ability to upload advanced technical specifications at the mapping specification level.

- [Create shared 'user defined' transformations](#)

- View system business and technical metadata
- Create, Modify & Delete Mapping Specifications
- Version Mapping specifications
- Upload existing Mapping Specifications via .MS Excel upload template.
- Enter advance mapping Specification details
  - ✓ Define Source Extract SQL
  - ✓ Define Update Strategy
  - ✓ Enter testing dispositions and notes at the mapping specification level
  - ✓ Upload advanced technical specifications at the mapping level and track documentation approvals
- Track status of mapping specification (completed vs. work in-progress).
- Track changes of mapping specifications

### Add On Modules

Codeset Manager

Reference Data Manager

Release Manager

Automation Framework

Test Manager Module

## 1.2 Terminology and Layout

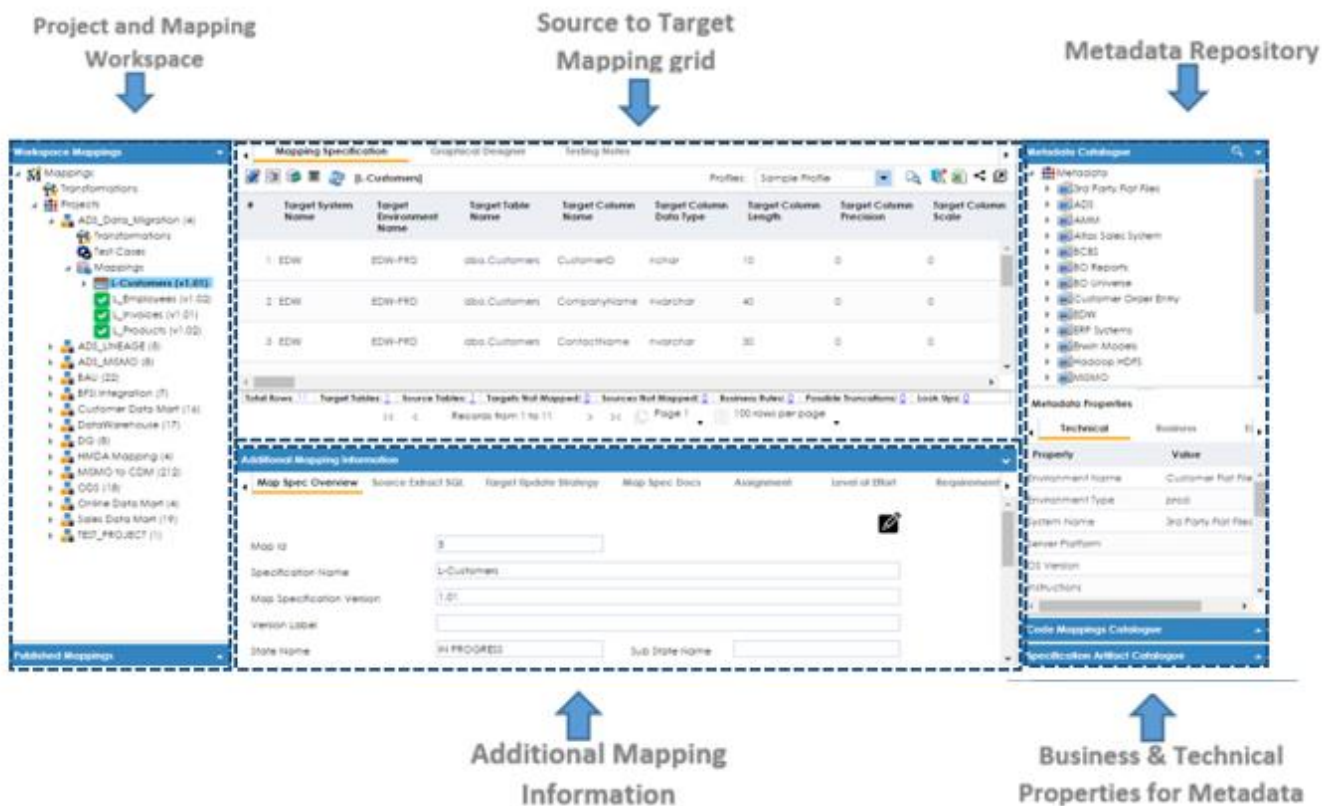
### Terminology:

Mapping Manager Terminology	
<b>Tree</b>	Refers to object nodes which are expandable and collapsible in the tree menu
<b>Roles</b>	Roles are synonymous with group permissions. Permissions can be assigned to the user by adding roles
<b>Right Click (menu)</b>	The application supports additional actions by right clicking the mouse when giving focus to an item (left-click) such as an item on a tree. When right clicking, an additional menu appears relevant to the item that you are selecting.
<b>Transformation</b>	Transformation refers to the shared 'user defined' transformations available in the project browser
<b>Environment</b>	Refers to system environments where connectivity instructions and metadata can be uploaded to the central repository. The Metadata Manager can upload any number of development (n), test (n) and production (n) environments.
<b>Upload</b>	Refers to the uploading of files or metadata to the central database repository for shared and collaborative access by other enterprise users.
Mapping Manager GUI Module/Frames Terminology	

<b>Project Browser</b>	The left most frame where the transformations, projects and mappings are stored in the 'project tree'
<b>Metadata Browser</b>	The right frame where the systems, tables and columns are stored. Columns support drag and drop from the Metadata Browser to the Data Grid
<b>Metadata Properties</b>	The metadata properties are a component of the metadata browser and is located directly below the Metadata Browser to allow visibility into the Technical Properties (data type, precision, scale etc.) and Business Properties (table and column level business terms).
<b>Data Grid</b>	The center frame where the mapping specifications are defined. The Data Grid is integrated with both the Project Browser and the Metadata Browser
<b>Mapping Details</b>	The details are located at the bottom of the screen and contain the extended mapping specification details, testing dispositions and notes as well as uploaded technical specifications.
<b>Enterprise Transformations</b>	Refers to any transformation that is entered into the 'list of transformations' within the Mapping Manager Module (Transformations Node)
<b>Non-Enterprise Transformations</b>	Refers to any transformation that is not in the 'list of transformations' within the Mapping Manager Module and is thereby manually entered

## GUI Layout:

The Mapping Manager module is broken out into the following five sections using resizable frames:



**NOTE:** Each frame is resizable. Users can resize any of the frames to their preference by sliding the frame left, right, up or down.

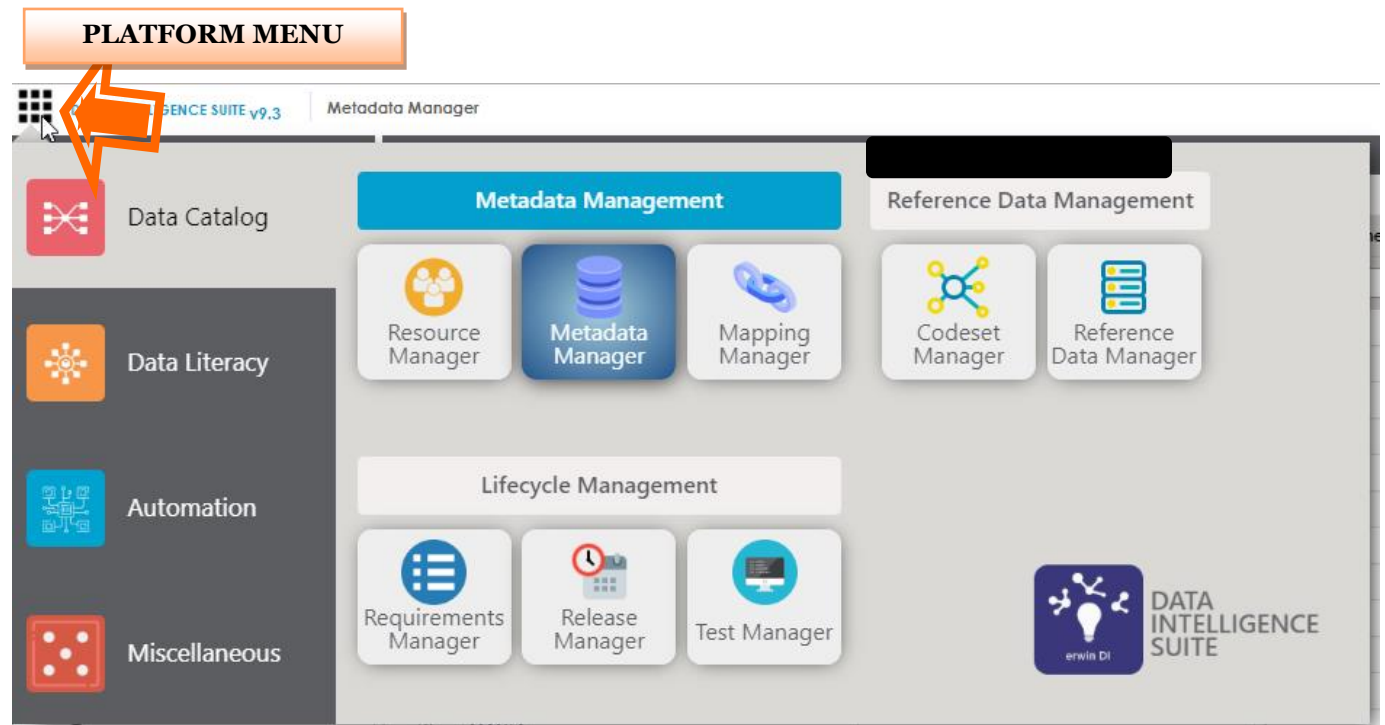
### 1.3 Access to Modules

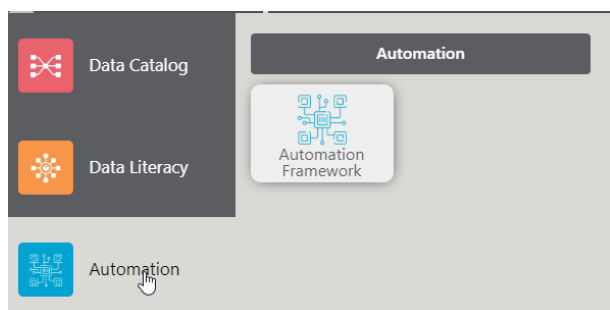
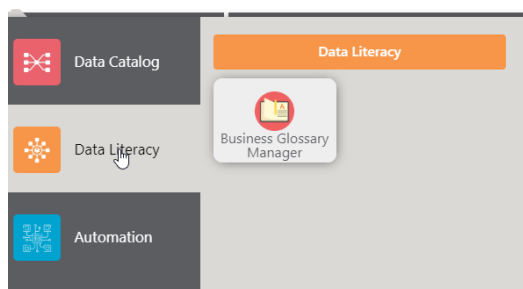
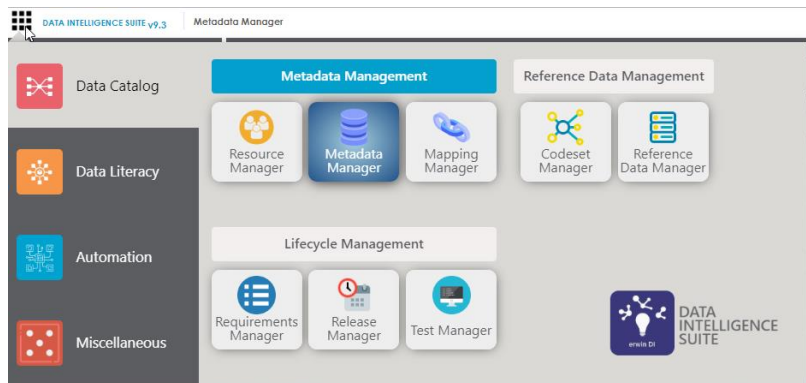
Once a User logs in, the user is taken to the Landing Module (e.g. Mapping Manager) that is assigned to them as a default.

Access to all modules is provided by a LAUNCHER MENU icon that is available on the LEFT TOP CORNER of your screen.

Click on the PLATFORM menu icon  to bring all modules into view

Click on the specific MODULE icon to navigate to the respective module





**Resource Manager** — Create Integration Projects, Configure User Roles

**Metadata Manager**— Scan Metadata from Source/Target systems. Maintain & Enrich Data Dictionaries. View Instant Impact Analysis and Data Lineage

**Mapping Manager** — Create Mapping Specifications, Generate Reports, Generate ETL Jobs

**Codeset Manager**— Define Valid Code values, scan legacy codesets and create code crosswalks

**Reference Data Manager**— Maintain Reference Tables, define and execute Validations for data cleansing purposes & publish reference tables to various deployment environments

**Release Manager**— Document Release Artifacts. Promote Mappings between environments seamlessly

**Test Manager** — Helps you to add, edit and clone the test cases specific to each map/project level and provides a facility for end users to import and export the test cases using standard excel format.

**Requirements Manager** —Helps you to document all your requirements and functional specifications

**Automation Framework** —. Create custom code for code gen, integration tasks etc.

**Settings**— Administrative settings screen to apply activate license key, enable user defined fields etc.

**Download Template**— Download Legacy Excel Template to import your legacy mappings, Codesets, metadata etc. This icon is enabled if a legacy template is available for the module selected

**Note:** Icons are greyed out if user does not have access to that specific module or if the module is not available as part of your product purchase.



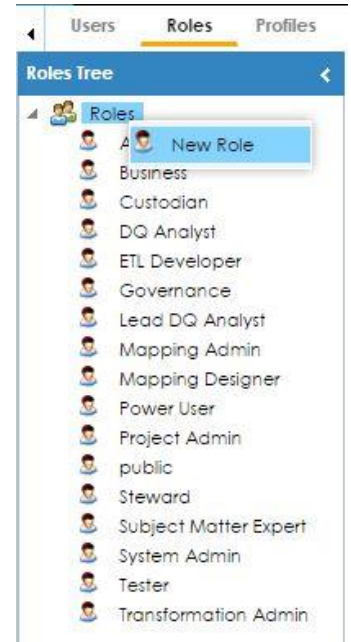
## 2. User Roles and Profiles

### 2.1 User and Roles

User roles and permissions can be customized according to the requirement of the Project teams.

To create a new role and assign permissions

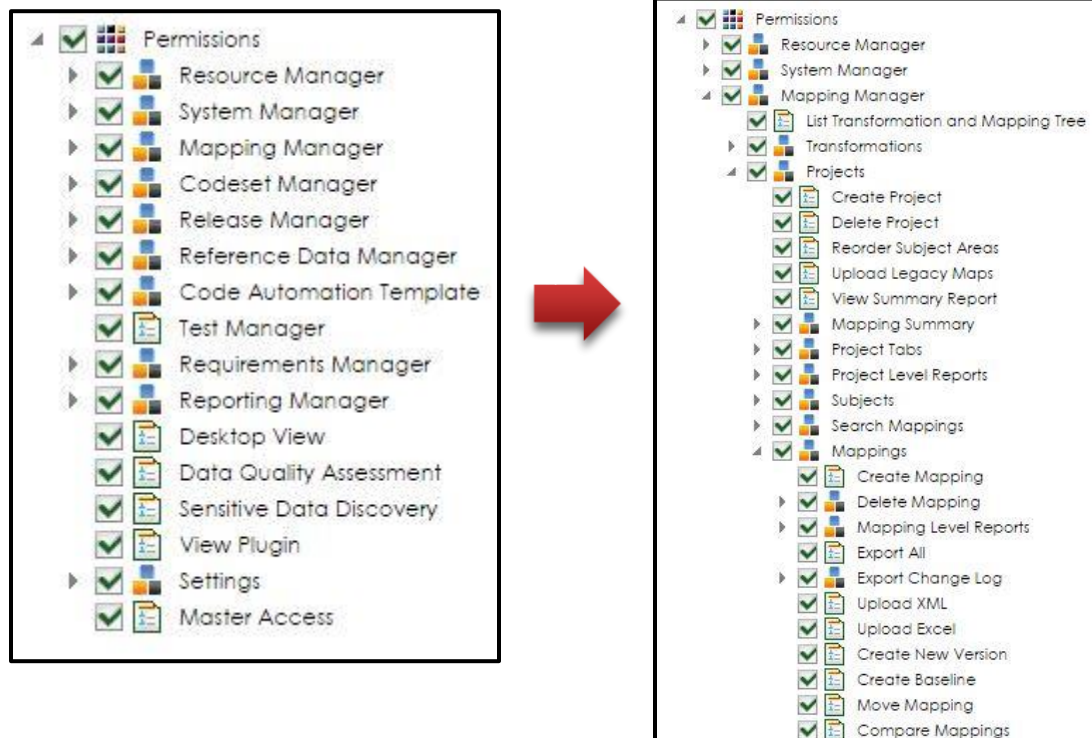
1. Go into the Resource Manager module.
2. Go into the Roles tab.
3. Right click on the “Roles” node and select the “New Role” option.
4. Enter the name and description of the role.
5. Provide the required permissions from the permission tree.



#### More about Permissions and the Permission Tree:

From the permission tree, grant the required permissions for a particular role.

Permissions are listed module wise. Any role can be granted specific permissions across various modules.



**Add Permission:** To add a permission, select the checkbox corresponding to the permission.

**NOTE:** If a parent level checkbox is selected, all child level checkboxes are automatically selected thereby providing the role permission throughout the module.

**Remove Permission:** To remove a permission, de-select the checkbox corresponding to the permission

**NOTE:** If a parent level checkbox is de-selected, all child level checkboxes are automatically de-selected thereby removing permission for the role throughout the module.

### Master Access & Project Specific Permissions:

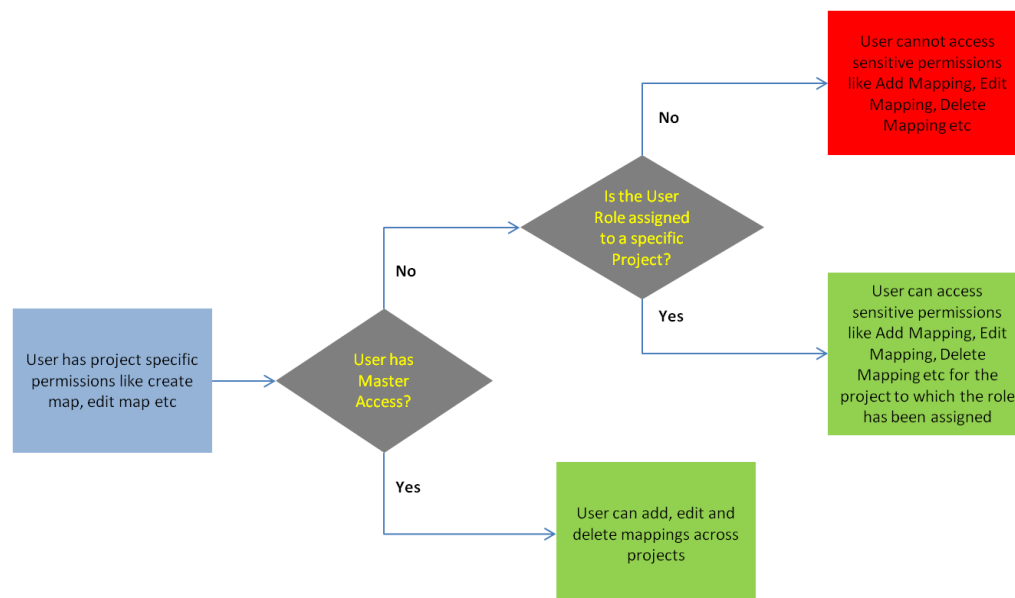
There are certain permissions in the Mapping Manager like Creating a new mapping, Editing mappings, Deleting mappings etc., which are project specific and users like a mapping designer or ETL developer need to be assigned to a particular project in order to gain write access to the Mappings in that project.

If a role has the “Master Access” selected, then that particular role need not be assigned to a particular project to gain write access. However, individual permissions like creating maps, editing maps etc., also need to be provided to the role.

If a role does not have the “Master Access” selected, then that particular role needs to be assigned to a particular project to gain write access. However, individual permissions like creating maps, editing maps etc., also need to be provided to the role.



**Use the Master Access permission in case of admin related roles. For project specific roles, do not provide the Master Access permission.**



## 2.2. Profile Customization

Profile customization of Mapping grid and Codeset grid from the Resource manager

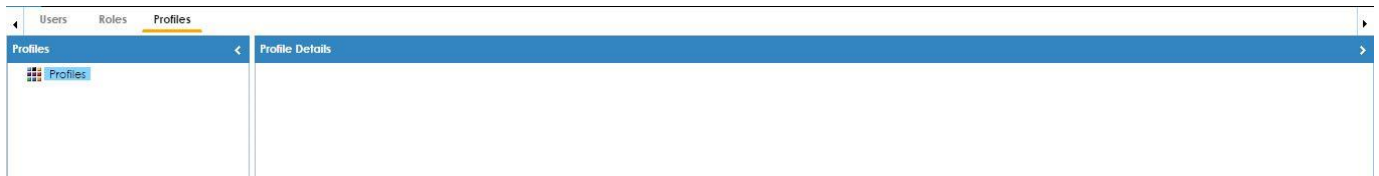
### 2.2.1 Mapping Grid Customization

Enterprise & Project Level Mapping Grid Profiles & Customization under Resource Manager.

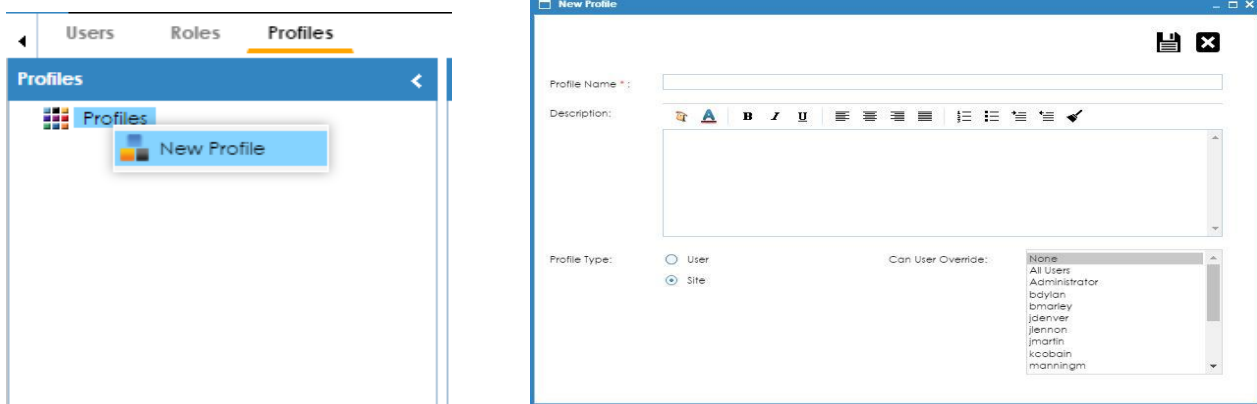


Configuring the Mapping Grid i.e. display and order of Columns at the Enterprise or Project level to enforce best practices and consistent use among project teams. Multiple Profiles can be created for the Mapping Grid by an Administrator or the end user. Users can toggle between multiple profiles and view the Mapping grid accordingly.

Under Resource Manager, Click on Profiles



Right Click on Profile node to create a new profile.



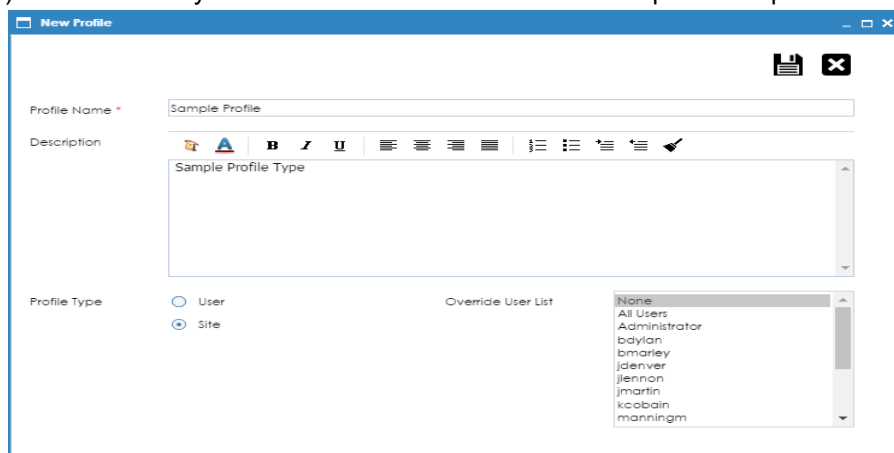
### **Profile Type:**

When logged into the tool with “Administrator” login, you will get both User and Site options while defining the profile whereas for normal logged on user based on the role/permissions defined he/she could get to see either user or site profile type.

- **User:** User is a normal user profile. Based on the permissions defined you can create either site or user profile. If the user is an admin than the logged on user can see both profile types.

- **Site:** Site is an Admin profile where you have an option to create can any desired profile and can see both profile type options.

Enter Profile and select the profile type (Site) with the users you want to override or select “None” option if required and click on save icon to create the profile.



Once you select “Site” option it gives you list of users under “Override User list”, this option allows the selected users to override the default grid setting with a setting of their choice and these changes will be auto saved when a new profile is created.

The screenshot shows the Erwin Profiles management interface. A green banner at the top right indicates "Profile successfully created". The left sidebar shows a tree view of profiles, with "Sample Profile" selected. The main area is the "Overview" tab, which contains the following fields:


- Profile Name:** Sample Profile
- Description:** (Empty text area)
- Profile Type:** Site (Selected)
- Override User List:** A dropdown menu showing a list of users: None, All Users, Administrator, arun, bdayan, bmarley, dibeck, jdenver, jennon, jmartin.
- Created By:** Administrator
- Created Date:** 2017-04-20 21:36:08.34
- Modified By:** Administrator
- Modified Date:** 2017-04-20 21:36:08.34

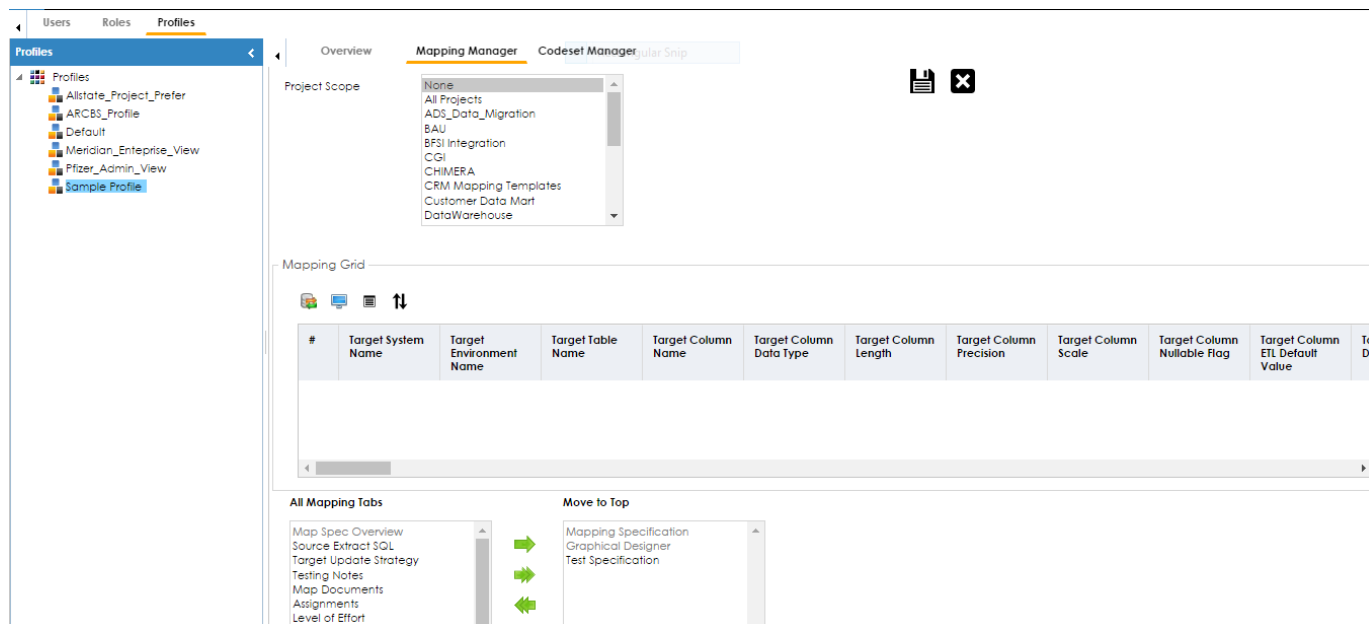
Once the profile gets created, you can go to overview tab to edit and do the modifications to the profile and save it.

Now, click on Mapping Manager tab to customize the header menu and add the required Mapping tabs to the mapping grid with the default tabs i.e., Mapping Spec grid and Graphical designer

The screenshot shows the Erwin Mapping Manager interface. The left sidebar is the same as the previous screenshot. The main area is the "Mapping Manager" tab, which contains the following sections:





- Project Scope:** A dropdown menu showing a list of project scopes: None, All Projects, ADS\_Data\_Migration, BAU, BFSI Integration, CGI, CHIMERA, CRM Mapping Templates, Customer Data Mart, DataWarehouse.
- Mapping Grid:** A table with columns: #, Target System Name, Target Environment Name, Target Table Name, Target Column Name, Target Column Data Type, Target Column Length, Target Column Precision, Target Column Scale, Target Column Nullable Flag, Target Column ETL Default Value, Target Column Data Type.
- All Mapping Tabs:** A list of tabs: Map Spec Overview, Source Extract SQL, Target Update Strategy, Testing Notes, Map Documents, Assignments, Level of Effort.
- Move to Top:** A list of tabs: Mapping Specification, Graphical Designer, Test Specification.

Click on the edit icon  edit the Mapping grid for customization.

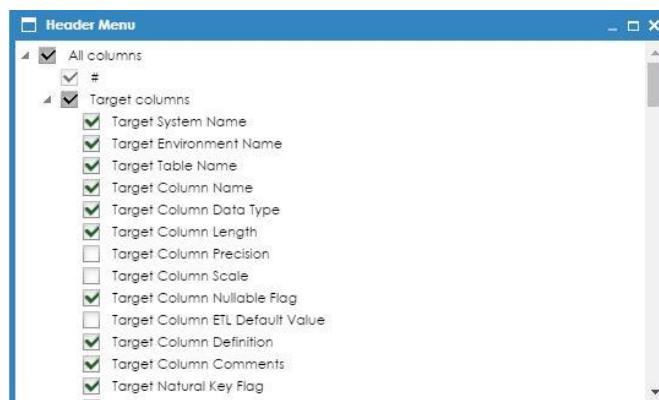
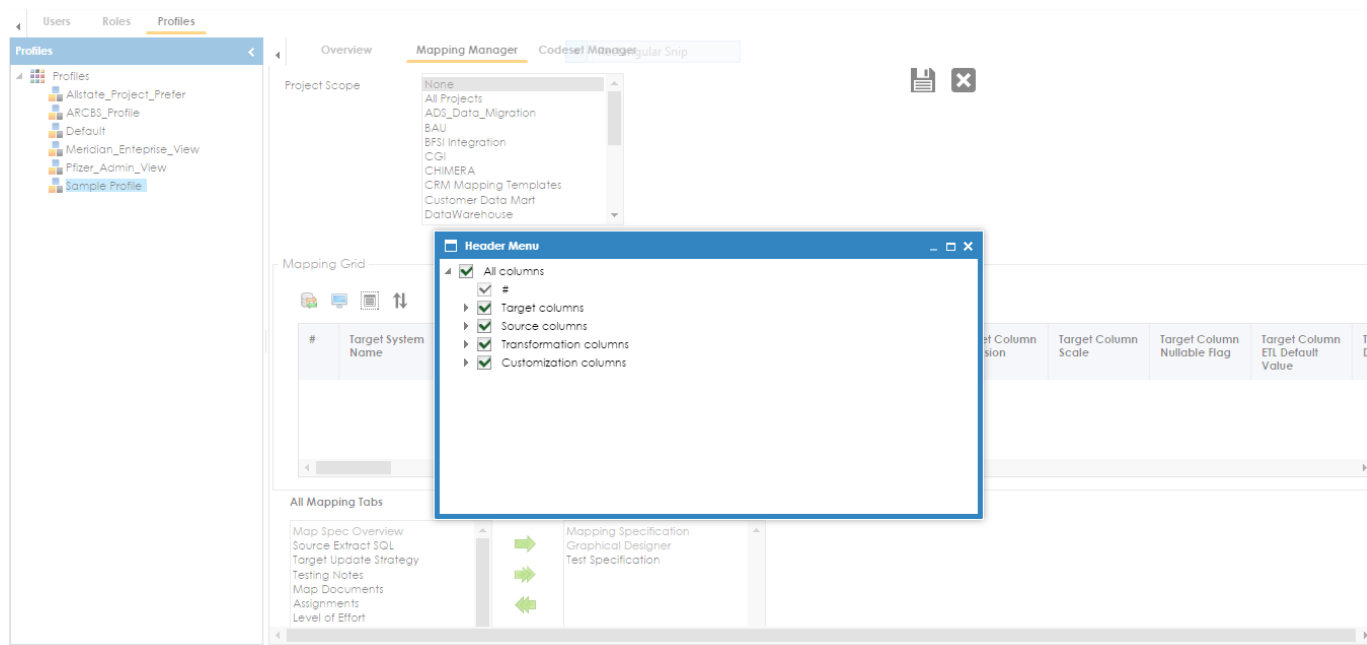


**Project Scope** - Select the Project Scope which lists the Projects that are created under Mapping Manager module, select All Projects or individual project.

**Mapping Grid** – Under this you have icons to customize the Mapping Grid customization i.e.,

-  Reset Column Ordering - Click the icon to reset the column ordering to default.
-  Reset Columns Visibility - Click the icon to reset the hidden columns under mapping grid to visible.
-  Header Menu - Click “Header Menu” option to customize the mapping grid header menu and have provision to select the required columns.
-  Change Column order - Click the icon to rearrange the columns order based on your requirement.

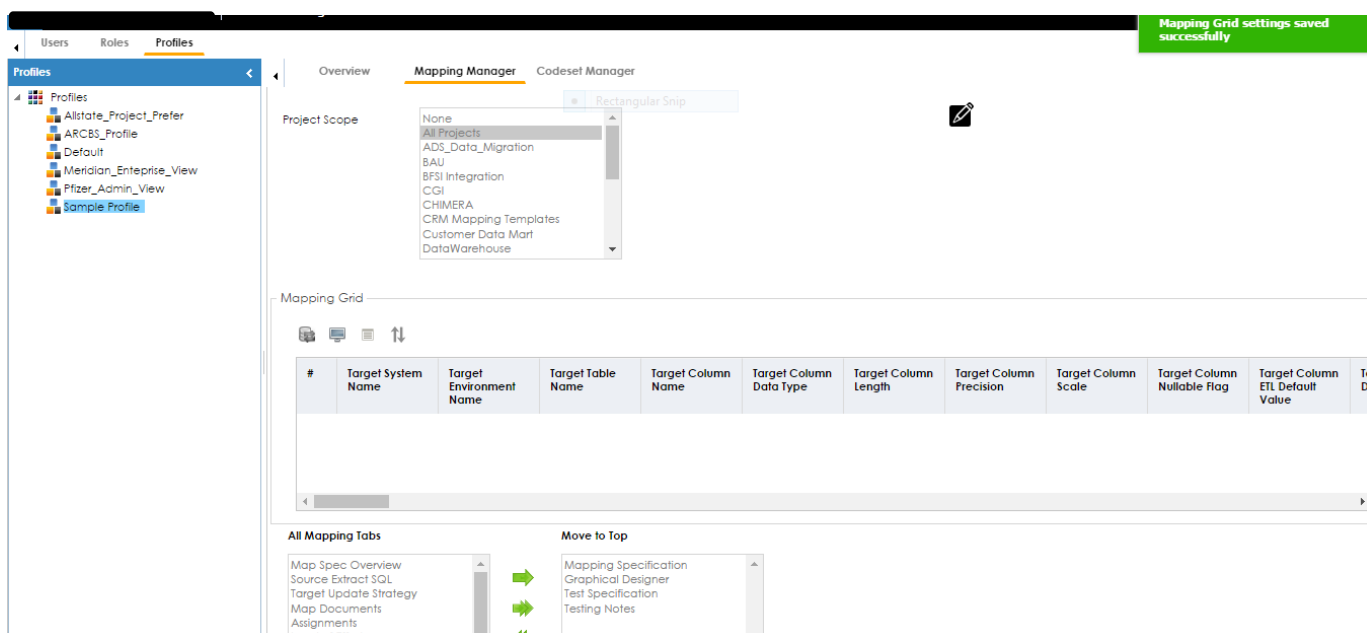
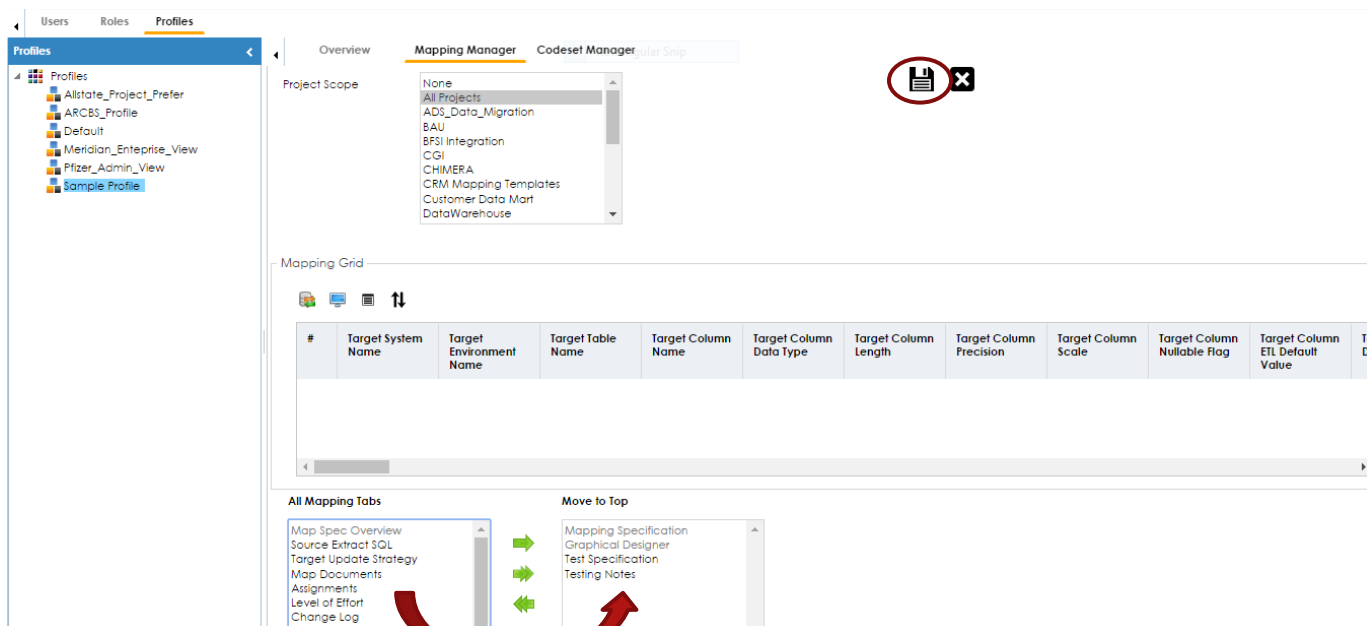
Click on “Header Menu” icon and expand to select the required columns to be seen under mapping grid.



Click on “Change Column order” icon to rearrange the columns order based on your requirement. Drag and Drop the column to the required position.



Once changes are done, click on save icon to save the Mapping customized view.



You can see the list of profiles created as below

S.No	Profile Name	Profile Type	Created By	Created Date Time	Last Modified By	Last Modified Date Time
1	Allstate_Project_Prefer	Site	Administrator	2016-10-18 15:45:21.32	Administrator	2016-10-18 15:45:21.32
2	ARCS3_Profile	Site	Administrator	2016-11-14 20:20:20.58	Administrator	2016-11-14 20:20:20.58
3	Default	Site	Administrator	2016-09-30 06:25:34.16	Administrator	2016-09-30 06:25:34.16
4	Meridian_Enterprise_View	Site	Administrator	2016-12-01 22:19:54.71	Administrator	2016-12-01 22:19:54.71
5	Pfizer_Admin_View	Site	Administrator	2016-10-21 10:18:18.92	Administrator	2016-10-21 10:18:18.92
6	Sample Profile	Site	Administrator	2017-04-20 21:36:08.34	Administrator	2017-04-20 21:36:08.34

Now, Go to Mapping Manger module -> Under Workspace Mapping s -> Projects

Click on Mapping and Select the defined profile under **"Profiles"** dropdown.



#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Scale	Target Column Null
1	EDW	EDW-PRD	dbo.Customers	CustomerID	nvarchar	0	0
2	EDW	EDW-PRD	dbo.Customers	CompanyName	nvarchar	40	0
3	EDW	EDW-PRD	dbo.Customers	ContactName	nvarchar	30	0
4	EDW	EDW-PRD	dbo.Customers	ContactTitle	nvarchar	30	0
5	EDW	EDW-PRD	dbo.Customers	Address	nvarchar	60	0
6	EDW	EDW-PRD	dbo.Customers	City	nvarchar	15	0

Total Rows: 11 | Target Tables: 1 | Source Tables: 1 | Targets Not Mapped: 0 | Sources Not Mapped: 0 | Business Rules: 0 | Possible Truncations: 0 | Look Ups: 0

Map Id: 5

If logged in with “Administrator” you can view both Site and User Profiles. Select the profile to customize the mapping grid as defined profile.

## 2.2.2 Codeset Grid Customization

### ▪ Codeset Grid Profiles & Customization under Resource Manager Module.

Configuring the Codeset Grid i.e. display and order of Columns to enforce best practices and consistent use among project teams. Multiple Profiles can be created for the Codeset Grid by an Administrator or the end user. Users can toggle between multiple profiles and view the Codeset grid accordingly

Under Resource Manager Module, Click on Profiles

Right Click on Profile node to create a new profile.

Profile Name:

Description:

Profile Type: ☐ User ☒ Site

Can User Override: ☐

None  
All Users  
Administrator  
bayan  
binary  
jdenver  
jennson  
jmartin  
jacobson  
manning

## Profile Type:

When logged into the tool with “Administrator” login, you will get both User and Site options while defining the profile whereas for normal logged on user based on the role/permissions defined he/she could get to see either user or site profile type.

- **User:** User is a normal user profile. Based on the permissions defined you can create either site or user profile. If the user is an admin than the logged on user can see both profile types.

- **Site:** Site is an Admin profile where you have an option to create can any desired profile and can see both profile type options.

Enter Profile Name and select the profile type (Site) with the users you want to override or select “None” option if required and click on save icon to create the profile.

Once you select “Site” option it gives you list of users under “Override User list”, this option allows the selected users to override the default grid setting with a setting of their choice and these changes will be auto saved when a new profile is created.

The screenshot shows the 'Mapping Manager' interface with the 'Profiles' tab selected. Under the 'Profiles' tab, the 'Overview' sub-tab is active. The main area displays a form for editing a profile named 'Sample Profile'. The form includes the following fields:


- Profile Name:** Sample Profile
- Description:** (Empty text area)
- Profile Type:** Radio buttons for 'User' and 'Site' (currently 'Site' is selected).
- Override User List:** A dropdown menu showing a list of users: 'None', 'All Users', 'Administrator', 'arun', 'baylan', 'bramley', 'dbeck', 'jdenver', 'jennan', and 'jmartin'.
- Created By:** Administrator
- Created Date:** 2016-10-18 15:45:21.32
- Modified By:** Administrator
- Modified Date:** 2017-04-18 18:30:15.57

Once the profile gets created, you can go to overview tab to edit and do the modifications to the profile and save it.

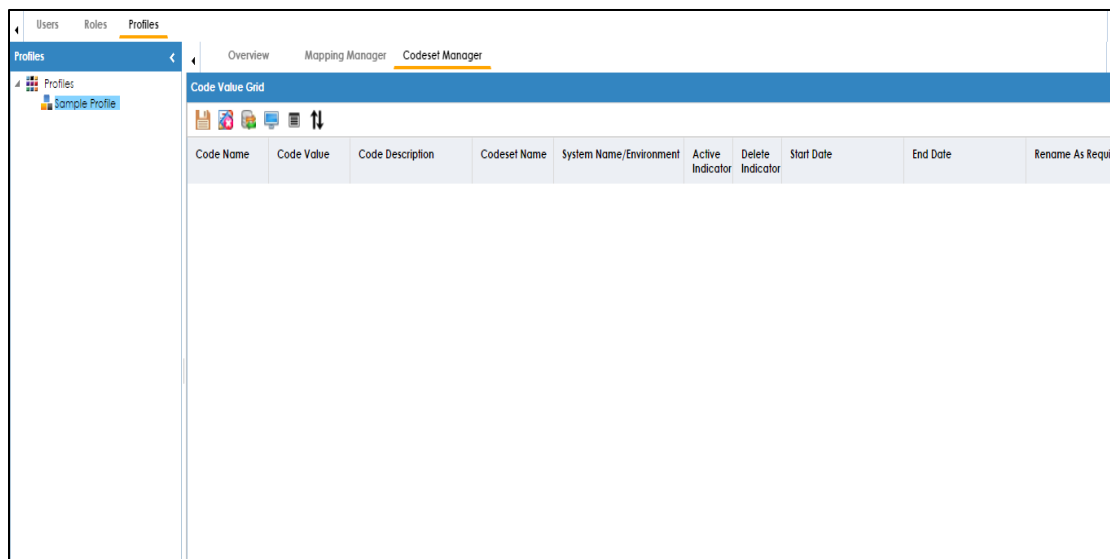
Now, click on Codeset Manager Tab to customize the header menu and add the required fields to the Codeset grid.

The screenshot shows the 'Codeset Manager' tab with the 'Code Value Grid' table. The table has the following columns:

Code Name	Code Value	Code Description	Codeset Name	System Name/Environment	Active Indicator	Delete Indicator	Start Date	End Date	Rename As Required


Click on the Edit icon  to edit the Codeset grid for customization.






**Code Value Grid** – Under this you have icons to customize the Codeset Grid i.e.

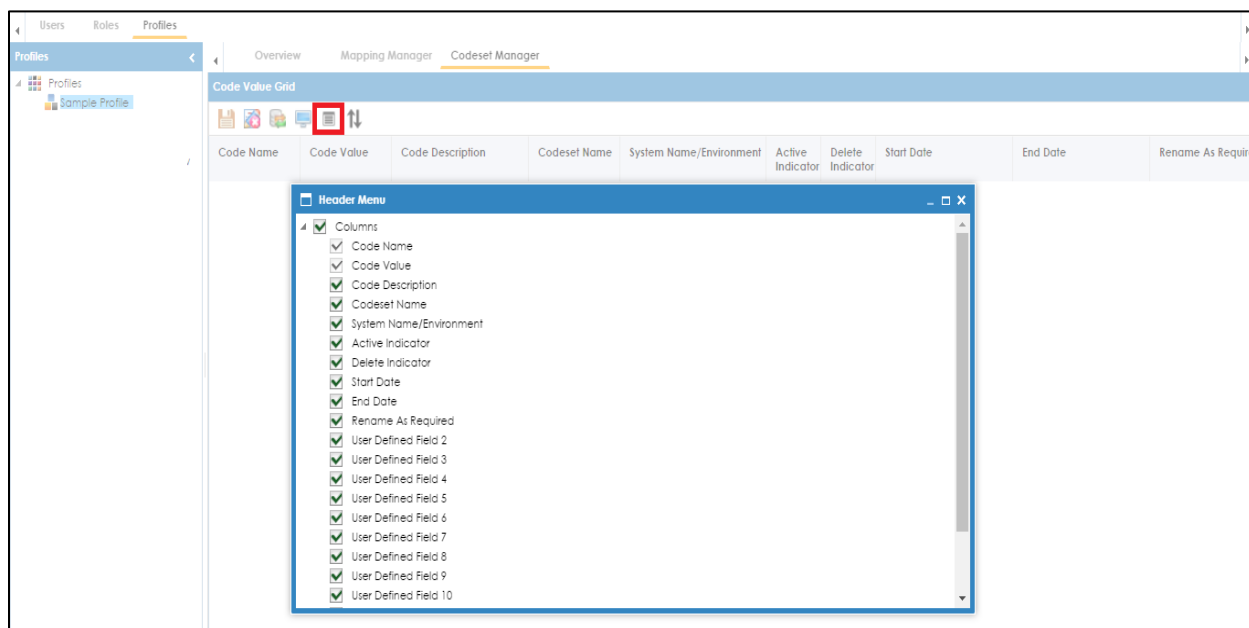
 **Reset Column Ordering** - Click the icon to reset the column ordering to default.


 **Reset Columns Visibility** - Click the icon to reset the hidden columns under mapping grid to visible.

 **Header Menu** - Click “Header Menu” option to customize the mapping grid header menu and have provision to select the required columns.

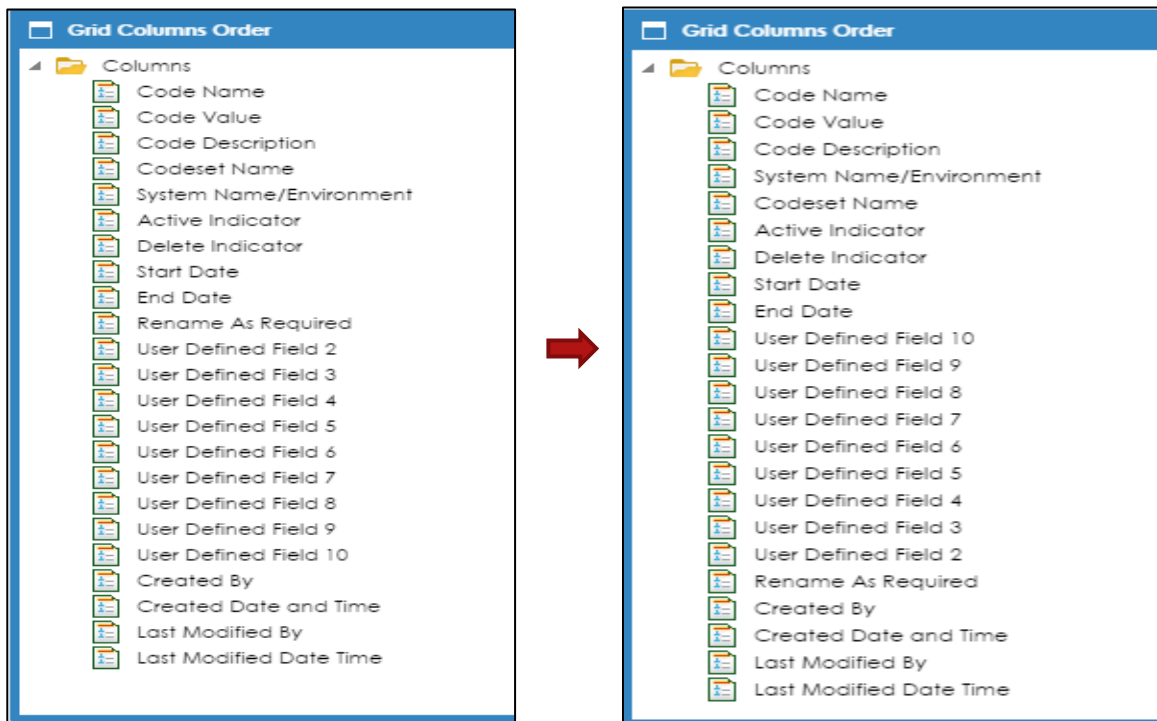
 **Change Column order** - Click the icon to rearrange the columns order based on your requirement.

Click on “Header Menu” icon and select the required columns to be seen under Codeset grid.

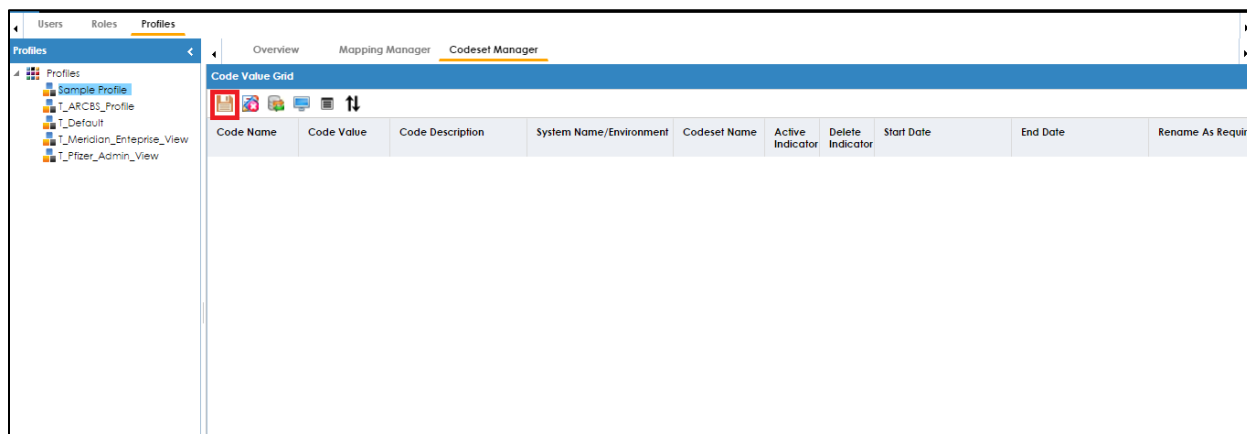


Click on ‘Change Column order’  icon to rearrange the columns order based on your requirement. Drag

and drop the column to the required position.



Once changes are done, click on save icon to save the Codeset customized view.



You can see the list of profiles created as below

Profile Details						
S.No	Profile Name	Profile Type	Created By	Created Date Time	Last Modified By	Last Modified Date Time
1	Sample Profile	Site	Administrator	2016-09-18 18:49:12.723	Administrator	2016-09-18 18:49:12.723
2	Test User Profile	User	Administrator	2016-09-18 19:04:37.33	Administrator	2016-09-18 19:04:37.33

Now, Go to Codeset Manger module -> Expand Codeset Category.

Click on a Codeset and select the defined profile under “Profiles” dropdown.

Code Name	Code Value	Code Description	Codeset Name	System Name/Environment	Active Indicator	Delete Indicator	Start Date	Profiles
Beverages	Beverages	Beverages	Customer_Codes	ACS.FACETSD8MS	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Condiments	Condiments	Condiments	Customer_Codes	ACS.FACETSD8MS	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Confections	Confections	Confections	Customer_Codes	ACS.FACETSD8MS	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Dairy Products	Dairy Products	Dairy Products	Customer_Codes	ACS.FACETSD8MS	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Grains/Cereals	Grains/Cereals	Grains/Cereals	Customer_Codes	ACS.FACETSD8MS	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Meat/Poultry	Meat/Poultry	Meat/Poultry	Customer_Codes	ACS.FACETSD8MS	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Produce	Produce	Produce	Customer_Codes	ACS.FACETSD8MS	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Seafood	Seafood	Seafood	Customer_Codes	ACS.FACETSD8MS	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

If logged in with “Administrator” you can view both Site and User Profiles. Select the profile to customize the mapping grid as defined profile.

### 3. Getting Started - Preparing the Mapping Manager Environment

#### 3.1 Access & Sign-in

Contact your erwin DI Suite Administrator for the URL for system access and your user id and password for the system. (Log-in Screen is shown)

**erwin**  
the data governance company

**DATA INTELLIGENCE SUITE**

User Name

Password

☒ I accept & agree to the terms of the [EULA](#)

**Sign In**

[Can't access your account?](#)

Before getting started and creating mapping specifications, there are a couple of prerequisites to working with the Mapping Manager Module.

In this section, you will learn:

- Verify Web Browser Settings
- Settings Customization (Admin and User Settings)
- Viewing Available Security Roles (Role-Based Security) & Creating New roles
- Creating Users and Assigning Permissions
- Creating a Project
- Define Systems, Upload System Metadata
- Print System Reports

### 3.2 Verify Web Browser settings

Mapping Manager is certified to run on the following web browsers

- ✓ Internet Explorer
- ✓ Google Chrome
- ✓ Mozilla Firefox
- ✓ Safari

**Pop-Ups:** Allow Pop-Ups from the mapping manager login URL. From the web browser go to Tools\Pop-Up Blocker Setting and add URL to allow pop-ups

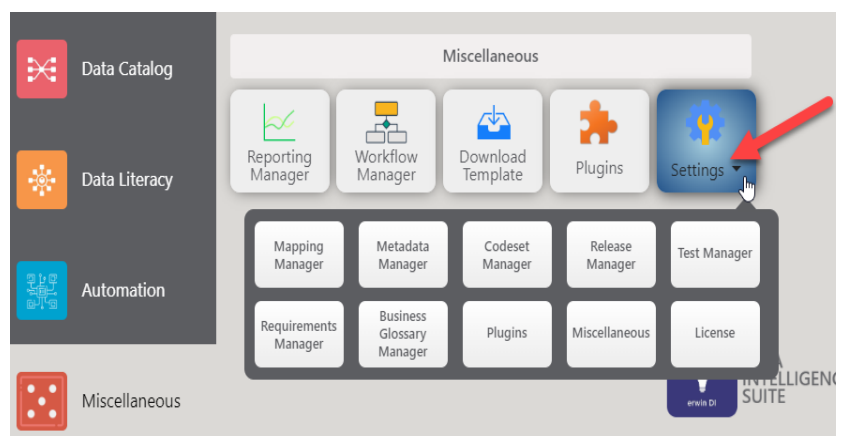
### 3.3 Settings Customization (Admin and User level settings)

All administrator level settings can only be accessed/modified by an Administrator or a Power User role. User level settings such as the Plugins module can be accessed by Individual users.

Click on the settings icon in the LAUNCHERPAD menu to access the settings options

You can view the settings options for

- Mapping Manager
- Metadata Manager
- Requirements Manager
- Codeset Manager
- Release Manager
- Test Manager
- Requirements Manager
- Reporting Manager
- Business Glossary manager
- Plugins
- Miscellaneous



- *License*

Provide the configuration parameters here in order to enable them across the Mapping Manager Application.

## Mapping Manager:

Click on the “Mapping Manager” option, you will see the following tabs

- ✓ Change Logs
- ✓ User-Defined fields
- ✓ Version Display
- ✓ Mapping State settings
- ✓ Notifications
- ✓ End To End Lineage

## Change Logs:

Displays the change log settings to enable change log capture in Mapping Specifications

Select the corresponding checkboxes to enable the feature across the application

Selecting the “[Enable Change Log capture for Mapping Specifications](#)” option enables the capture of change description every time a user tries to edit a mapping specification.

Selecting the “[Enable Change Log tab display for Mapping Specification tabs](#)” option enables the display of the Change Log tab (for a mapping specification) to view entire change history.

Selecting the “[Enable export of Change Log to Excel \(at the Project, Subject and Mapping Level\)](#)” option enables the export of a detailed Change Log report to Excel. Change Log can be exported out at the Project level, Subject Area level or for an individual mapping.

Selecting the “[Enable Change Log capture for Mapping Specification tabs](#)” enables the capture of change description every time a user tries to edit the mapping specification tabs such as “Map Spec Overview”, “Source Extract SQL”, “Update Strategy” etc. You can pick and choose the tabs that need to have the change log capture

enabled. Change description will be captured only for those tabs that are selected here.

## User Defined Fields:

10 User defined attributes at both table and column level are displayed. The user can select the number of user defined fields that they want to use by selecting the required fields. These fields would then display as additional metadata attributes for a table/column under business properties.

Change Log	User Defined Fields	Version Display	Mapping State Settings	Notifications
<b>Table Metadata :</b> <div> <input checked="" type="checkbox"/> User Defined-1           <input checked="" type="checkbox"/> User Defined-6         </div> <div> <input checked="" type="checkbox"/> User Defined-2           <input checked="" type="checkbox"/> User Defined-7         </div> <div> <input checked="" type="checkbox"/> User Defined-3           <input checked="" type="checkbox"/> User Defined-8         </div> <div> <input checked="" type="checkbox"/> User Defined-4           <input checked="" type="checkbox"/> User Defined-9         </div> <div> <input checked="" type="checkbox"/> User Defined-5           <input checked="" type="checkbox"/> User Defined-10         </div> <p><b>Note:</b> These user defined flex fields are available at the table meta data level and can be used to tag additional meta data elements.</p> <p><b>User Defined Tabs :</b></p> <input type="checkbox"/> Additional Fields in User Defined Tabs		<b>Columns Metadata :</b> <div> <input checked="" type="checkbox"/> User Defined-1           <input checked="" type="checkbox"/> User Defined-6         </div> <div> <input checked="" type="checkbox"/> User Defined-2           <input checked="" type="checkbox"/> User Defined-7         </div> <div> <input checked="" type="checkbox"/> User Defined-3           <input checked="" type="checkbox"/> User Defined-8         </div> <div> <input checked="" type="checkbox"/> User Defined-4           <input checked="" type="checkbox"/> User Defined-9         </div> <div> <input checked="" type="checkbox"/> User Defined-5           <input checked="" type="checkbox"/> User Defined-10         </div> <p><b>Note:</b> These user defined flex fields are available at the column meta data level and can be used to tag additional meta data elements.</p> <p><b>Subject User Defined Fields :</b></p> <input type="checkbox"/> Additional Subject User Defined Fields		

## Version Display:

Provides the Version Display options for a Mapping Name.

A Mapping Name would contain the following options attached to it

- Mapping Version
- Version Label
- No Version (i.e. only Mapping Name is displayed)

Select the corresponding checkboxes to enable the Mapping version display across the application.

Change Log	User Defined Fields	Version Display	Mapping State Settings	Notifications
<b>Mapping Version Display Option</b> <div> <input checked="" type="radio"/> Standard Mapping Version           <input type="radio"/> Version Label           <input type="radio"/> Do Not Display Version         </div> <p>Eg. If Mapping Details are as follows:</p> <div>           Mapping Name: Datamart Mapping            Mapping Manager Version:: 1.03            Version Label : Version 21.2 Beta         </div> <p>Mappings in the Projects browser will display as follows depending on the option selected::</p> <div>           Standard Mapping Version: Datamart Mapping (v1.03)            Version Label : Datamart Mapping (Version 21.2 Beta)            Do Not Display Version: Datamart Mapping         </div>				

**NOTE:** If the mapping version display option is selected as “Version Label”, and the version label is blank, then the Mapping name will include the actual version number instead of the blank version label.

## Mapping State Settings:

You can define a new state and sub state, assign the same specific to each Map in Map specification overview tab.

Change Log

User Defined Fields

Version Display

Mapping State Settings

Notifications

State

#	State Name	Created By	Created Date Time	Last Modified By	Last Modified Time	Edit	Delete
1	VERIFIED	Administrator	2014-04-22 08:19:13.767	Administrator	2014-04-22 08:19:13.767		
2	APPROVED	Administrator	2014-04-22 08:19:22.83	Administrator	2014-04-22 08:19:22.83		
3	CONFIRMED	Administrator	2014-04-22 08:19:31.07	Administrator	2014-04-22 08:19:31.07		
4	READY	Administrator	2014-04-22 08:19:37.54	Administrator	2014-04-22 08:19:37.54		

Sub State

#	State Name	Created By	Created Date Time	Last Modified By	Last Modified Time	Edit	Delete
1	Verified-Partial	Administrator	2014-04-22 08:19:50.337	Administrator	2014-04-22 08:19:50.337		
2	Verified-Complete	Administrator	2014-04-22 08:20:01.037	Administrator	2014-04-22 08:20:01.037		
3	Confirmed-Partial	Administrator	2014-04-22 08:20:12.313	Administrator	2014-04-22 08:20:12.313		
4	Confirmed-Complete	Administrator	2014-04-22 08:20:20.927	Administrator	2014-04-22 08:20:20.927		
5	Approved-Complete	Administrator	2014-04-22 08:20:32.737	Administrator	2014-04-22 08:20:32.737		

## Notifications:

You can configure the following mail options here like

- Email Subject
- Email Body

Change Log	User Defined Fields	Version Display	Mapping State Settings	Notifications
------------	---------------------	-----------------	------------------------	---------------

**Mapping Manager**

**New User Creation:**

Email Subject: Mapping Manager User Successfully Added - DO NOT REPLY

Email Body:

**B I U** Hello @userFullName@,  
User @userid@ has been successfully added to mapping manager. This user has been granted with role(s) @roles@.  
The default role for this user is @defaultrole@.  
*Note: This is an auto generated email notification and this mailbox is*

**Mapping Assignments:**

Email Subject: Mapping Manager Assignment Status - DO NOT REPLY

Email Body:

**B I U** Hello,  
This is a system generated notice to inform you of a Mapping Status Change or Assignment.  
**Mapping Details:**  
Project Name: @projectName@  
Mapping Name: @mapName@

**Forgot Password:**

Email Subject: Mapping Manager Password Help - DO NOT REPLY

Send Mail On

New Mapping:





## Release Manager:

- ✓ Environments
- ✓ Release object Types
- ✓ Release Status
- ✓ History Types
- ✓ Notifications

## Environments:

Provides an option to add “New Release Environment”

Environments	Release Object Types	Release Status	History Types	Notifications	
Environments Listing <span>+</span>					
#	Name	Description	Environment Color	Options	
1	DEV				
2	TEST				
3	PROD				

## Release object Types:

Provides an option to add Release objects which are used while defining new objects.

Environments	Release Object Types	Release Status	History Types	Notifications	
Release Object Listing <span>+</span>					
#	Name	Description	Options		
1	DDL Script				
2	DML Script				
3	SQL Script				
4	Data Item				
5	Code Set				
6	Code Map				

## Release Status:

Provides an option to add Release status as per the requirement which can be used to define the status of release.

Environments	Release Object Types	Release Status	History Types	Notifications	
Release Status Listing <span>+</span>					
#	Name	Description	Release Preview	Migration Object Preview	Options
1	PENDING APPROVAL		PENDING APPROVAL	PENDING APPROVAL	
2	PENDING CONFIRMATION		PENDING CONFIRMATION	PENDING CONFIRMATION	
3	VALIDATED		VALIDATED	VALIDATED	
4	CONFIRMED		CONFIRMED	CONFIRMED	

## History Types:

Provides and option to configure History Grid as per the requirement.

Environments	Release Object Types	Release Status	History Types	Notifications	
--------------	----------------------	----------------	---------------	---------------	--

History Listing Grid

#	Name	Description	Options
1	ADD	Add Record	
2	EDIT	Edit Record	
3	VIEW	View Record Details	
4	DELETE	Delete Record	
5	LIST	List Records	
6	STATUSCHANGE	Changed Status	
7	MOVE	Move Record	
8	Replace	Replace Record	
9	ADD DATA ITEM MAPPING	ADD Record From MappingManagerMap	
10	ADD FROM CODESET	ADD Record From CodeSet	
11	ADD FROM CODEMAP	ADD Record From CodeMap	
12	Promote	Promote Record	
13	Publish	Publish Record	

## Notifications:

Provides and option to configure Email subject and Email body.

Environments	Release Object Types	Release Status	History Types	Notifications	
--------------	----------------------	----------------	---------------	---------------	--

Release Manager

**Reset Password:**

Email Subject: CMM Admin - Your password is reset

Email Body:

**B I U**

User Name: <%USERNAME%>\n Password: <%USERPASSWORD%>\n This is an automated message - Please dont reply to this mail

**Migration Object:**

Email Subject: CMM Migration Object

## Plugins:

External plugins can be added by users and can be controlled. Plugin URLs can be made visible to all users or restricted to the user who creates the plugin.

In order to add a new plugin, click the **+** icon and in the pop-up screen enter the plugin details. To restrict display of a plugin to only the individual user, set the visibility as private. To make the plugin visible to all users, set the visibility as public.

Plugins	
---------	--

Plugin Details

#	Icon	Title	URL	Description	Visibility	Options
1		AnalytixDS	http://www.analytixds.com	ADS Test Plugin	Public	

## Miscellaneous:

- ✓ Email settings
- ✓ Language Settings
- ✓ Login Images
- ✓ ALM Configuration
- ✓ User Activity
- ✓ Tags

## Email Settings:

You can configure Email settings on this page.

Email Settings Language Settings

Admin Email Id\*

Admin Email User Name\*

Admin Email User Password\*

Admin Email SMTP Host\*

Admin Email Use SSL ☐ Note: default port - 465

Admin Email Use TLS ☐ Note: default port - 587

Admin Email SMTP Port\*

## Language Settings:

Email Settings Language Settings

Key Description	ENGLISH	CHINESE	FRENCH	GERMAN	HEBREW	PORTU
Codeset Manager	Codeset Manager					
Mapping Manager	Mapping Manager					
Permissions	Permissions					
Environment	Environment					
HistoryType	HistoryType					
MigrationObjectType	MigrationObjectType					
MigrationStatus	MigrationStatus					
Tool Tip	Tool Tip					
User Defined Flex Fields	User Defined Flex Fields					
Global Search	Global Search					
Reference Data Manager	Reference Data Manager					
Code Automation Templates	Code Automation Templates					

## ALM Configuration:

Email Settings

Language Settings

Login Images

**ALM Configuration**

Domain\* :

User Name\* :

Password\* :

Project\* :

URL\* :

HP ALM Version

12.5

Activate HP ALM Sy

☐

Click on “**Edit**” icon and Enter Domain name, User name, password, Project name and the URL to test the connection, select the HP ALM version from dropdown and save the configuration details.

The configuration details helps you to connect to HP ALM and export the test cases into EMM test specification and vice versa.

## License:

Displays current license settings and text field to Activate the new license.

License		
Title	Value	Apply New License
Company Name:	Demo Environment	<div>Paste License</div> <div></div>
Allowed Projects:	Unlimited	
Allowed Subjects Per Project:	Unlimited	
Codaset Manager:	Enabled	
Release Manager:	Enabled	
Reference Data Manager:	Enabled	
Code Automation Templates:	Enabled	
Allowed Users:	Unlimited	<div>Activate License</div>
Concurrent Logins Allowed:	Unlimited	
User Multi Login Allowed:	No	
License Created On:	Thu Oct 09 00:18:18 IST 2014	<div>Note: All active sessions will be invalidated</div>
Evaluation Days:	365	
Evaluation End Date:	Fri Oct 09 00:18:18 IST 2015	

## User Activity:

User activity gives information in detail for each user with IP address, Browser used to access the application, Login and Logout with session duration.

You also have an option to export the user activity to excel.

User Activity						
From Date		To Date		Export to Excel	Notify	Delete
				Logout [1]		
#	IP Address	Browser	Last Log-In	Log-Out	Session Duration (HH:MM:SS)	Delete
1	192.168.1.53	Firefox(56.0)	09/27/2017 01:25:03		00:01:59	<input type="checkbox"/>
2	192.168.1.53	Firefox(56.0)	09/27/2017 12:29:21	09/27/2017 01:21:12	00:51:51	<input type="checkbox"/>
3	192.168.1.53	Firefox(56.0)	09/26/2017 11:34:07	09/27/2017 12:17:12	00:43:05	<input type="checkbox"/>
4	192.168.1.53	Chrome(61.0.3163.100)	09/25/2017 08:57:54	09/25/2017 09:50:38	00:52:44	<input type="checkbox"/>
5	192.168.1.53	Chrome(61.0.3163.100)	09/25/2017 08:00:49	09/25/2017 08:32:34	00:31:45	<input type="checkbox"/>
6	192.168.1.53	Chrome(61.0.3163.100)	09/25/2017 07:28:04	09/25/2017 07:59:33	00:31:29	<input type="checkbox"/>
7	192.168.1.53	Chrome(61.0.3163.100)	09/25/2017 06:51:37	09/25/2017 06:59:26	00:07:49	<input type="checkbox"/>
8	192.168.1.53	Chrome(61.0.3163.91)	09/19/2017 07:02:23	09/19/2017 08:03:21	01:00:58	<input type="checkbox"/>
9	192.168.1.53	Chrome(60.0.3112.113)	09/18/2017 07:57:17	09/18/2017 08:30:29	00:33:12	<input type="checkbox"/>
10	192.168.1.53	Chrome(60.0.3112.113)	09/18/2017 06:18:49	09/18/2017 06:49:25	00:30:36	<input type="checkbox"/>
11	192.168.1.114	Chrome(60.0.3112.113)	09/14/2017 09:40:11	09/14/2017 10:10:39	00:30:28	<input type="checkbox"/>
12	192.168.1.114	Chrome(60.0.3112.113)	09/14/2017 07:36:11	09/14/2017 08:07:05	00:30:54	<input type="checkbox"/>
13	192.168.1.53	Chrome(60.0.3112.113)	09/12/2017 09:03:20	09/12/2017 09:33:56	00:30:36	<input type="checkbox"/>
14	192.168.1.53	Chrome(60.0.3112.113)	09/12/2017 08:13:22	09/12/2017 09:03:20	00:49:58	<input type="checkbox"/>

You can select a specific user and click on “Notify” to notify the following information through emails and can attach any documents to be shared if any and click on send icon to send the required information to user.

User Activity						
From Date		To Date		Export to Excel	Notify	Delete
				Logout [1]		
#	IP Address	Browser	Last Log-In	Log-Out	Session Duration (HH:MM:SS)	Delete
1	192.168.1.53	Firefox(56.0)	09/27/2017 01:25:03		00:01:59	<input type="checkbox"/>
2	192.168.1.53	Firefox(56.0)	09/27/2017 12:29:21	09/27/2017 01:21:12	00:51:51	<input type="checkbox"/>
3	192.168.1.53	Firefox(56.0)	09/26/2017 11:34:07	09/27/2017 12:17:12	00:43:05	<input type="checkbox"/>
4	192.168.1.53	Chrome(61.0.3163.100)	09/25/2017 08:57:54	09/25/2017 09:50:38	00:52:44	<input type="checkbox"/>

Email Settings

Rectangular Snip

Send

Cancel

From\*

kartiks@analytixds.com

To\*

























kartiks@analytixds.com

Cc

Note\* : Please provide CC List with comma(,) separated values

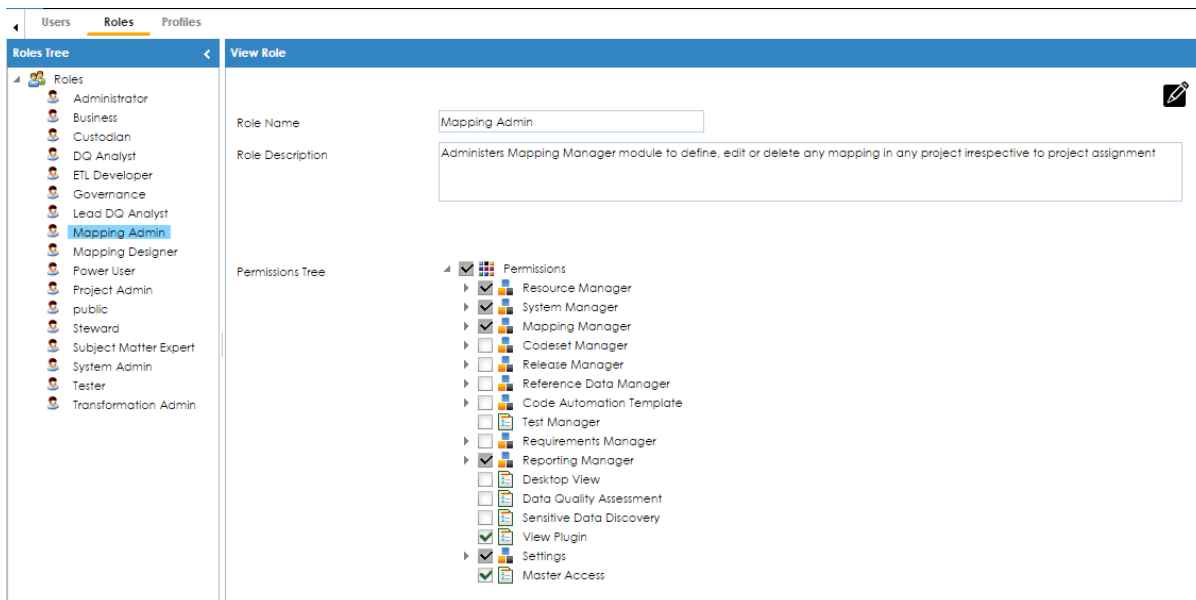
Subject

Email Body



### 3.4 Viewing available security roles and creating new roles

Go to the Resource Manager Module and Navigate to the Roles tab. You can now see a list of default security roles available. Each of the Security roles can be assigned to users.

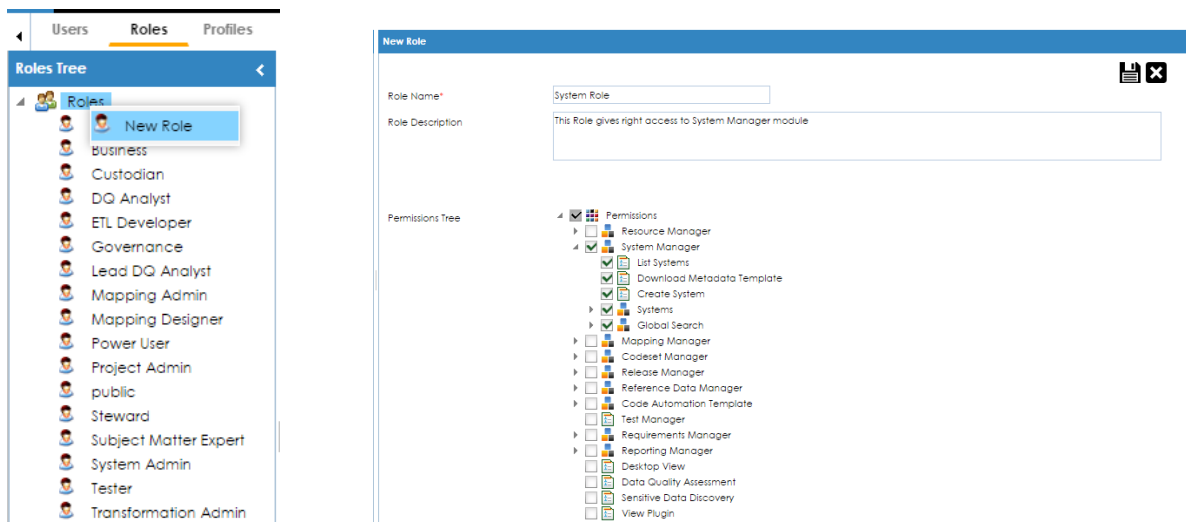


#### Create a New Role:

You can create a new role and define your own permissions (i.e. what parts of the application can the role access). The role will only have access to those modules that are selected in the permissions.

To create a new role, right click on the “Roles” node and select “New Role”. Enter the Role Name and Description. From the permissions tree, assign the required permissions.

Click the “Save” icon when done.



One User can have multiple security roles assigned. For example, one user can have Project Admin, System Admin and Transformation Admin roles assigned. When any non-public role is assigned to a user. The public role is also assigned by default granting the user to have 'Read-Only' access to all modules



The only difference between a Power User Role and an Administrator Role is the Administrator can add user to the Mapping Manager System

## Locking Down Security

We recommend granting roles based on functional use internal to the organization. For example, we recommend assignment of the following roles to lock down certain access in large organizations where data governance may want to restrict changes to 'Enterprise Transformations (Role: Transformation Admin), Updating and Refreshing of Metadata (Role: System Admin) Etc.

## Liberal Use Security

Recommended for smaller development teams where various internal teams are not involved in the Mapping Specification, ETL Development, Governance and Testing process. For these organizations you may want to assign a power user role to all users granting read/write access to all modules, projects and mapping specifications

### 3.5 Create New Users and assign permissions

Go to the Resource Manager Module and Navigate to the users tab. You can now see a list of available users.

#### Create a New user:

You can create a new user by right clicking the "Users" node and selecting the "New User" option. Enter the User Details, select the required roles to be assigned to the user and click the "Save" icon.



You can assign a User more than one role. In such cases, the user acquires all permissions available across all the assigned roles.

You can add documents to a User while user creation or Right click and edit user to upload documents. Click the "Add" icons and enter the document details to upload and save.





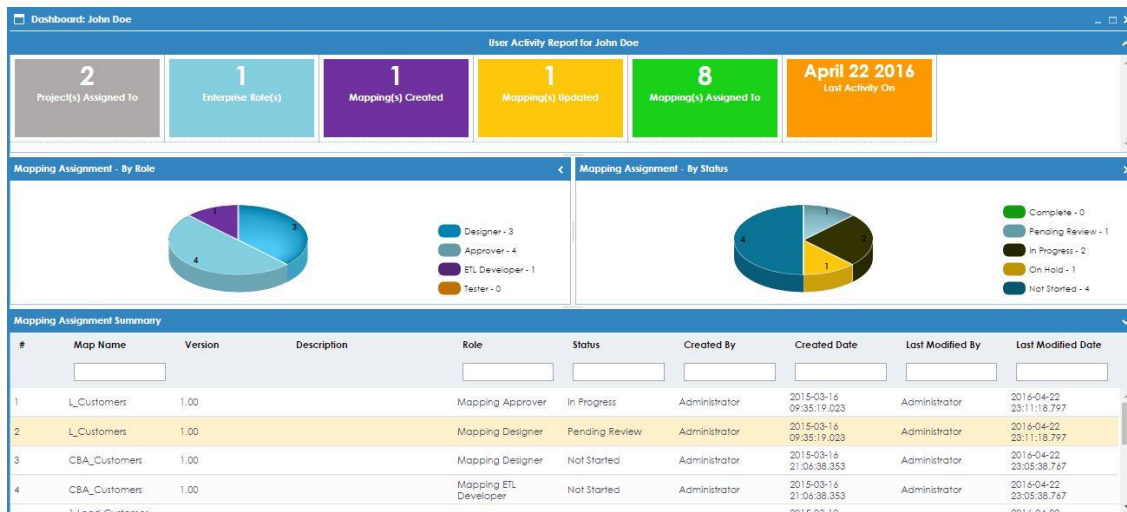
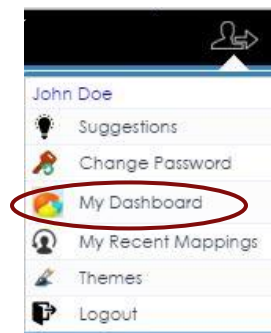
## Run User Activity Report:

Click on a user, on right side you have **“View user”** and select the **“Resource Activity”** option. This will display a graphical output of the user’s activity across the application. You can also view a detailed report of the activity in addition to the pie-chart representation.

**View User:** User information in detail

## Resource User Activity report:

Once you are logged into the application, on the top-right corner you will see the icons , click on  (options icon) and access **“My Dashboard”** to get access to User activity report of the logged in user.



## 4. Creating and Managing Mapping Specifications

Now that you have created users, created a project, defined systems and uploaded metadata you can begin creating Mapping specifications by dragging and dropping items from the Metadata Browser to the Data Grid (Mapping Specification).

Mapping Manager is a tool designed to quickly build metadata driven source to target mapping specifications and enterprise standards around managing the mapping specifications process and tracking data lineage across the enterprise. Thereby the first place we start in the mapping manager module is to define an exhaustive list of 'transformations' available at the 'enterprise level'.

In this section, you will learn:

### Create Projects

#### Define Transformations (Drive Enterprise Mapping Standards)

Manually Enter (free form)

Upload/Export Mapping Specifications from ADS Template

Run Impact Analysis on Enterprise Transformations (determine usage).

#### Create and Manage Mapping Specifications

Fully Metadata Driven Mapping Approach (Drag & Drop)

Manually enter (free form)

Upload Mapping Specifications from ADS Template

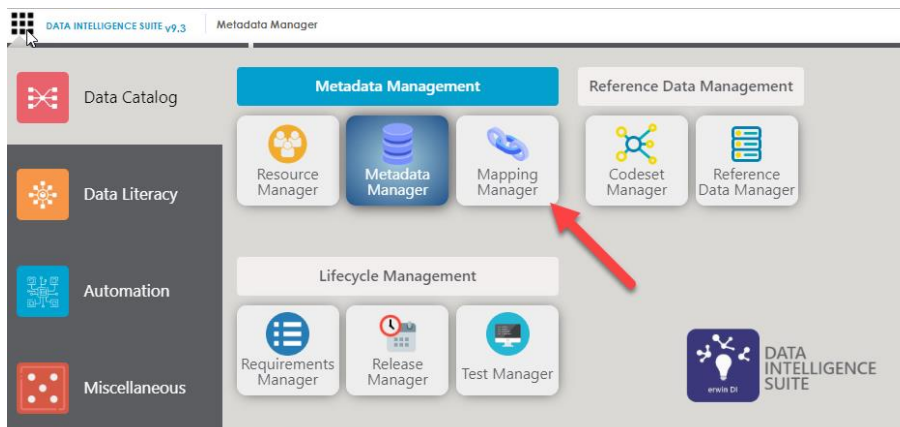
#### Adding Mapping Details

#### Printing the Mapping Specifications

#### Performing Impact Analysis

**Mapping Manager** – Click on the “Mapping Manager” icon in the Launcher pad to access the Mapping Manager module.

Click the **Mapping Manager** Icon



Once you click on the Mapping manager icon, it displays list of workspace mapping with the project summary and Mapping Manager Dashboard (which gives you a detailed overview of all the projects and its corresponding mappings respective to each project with Mapping status and proactive Impact analysis report).

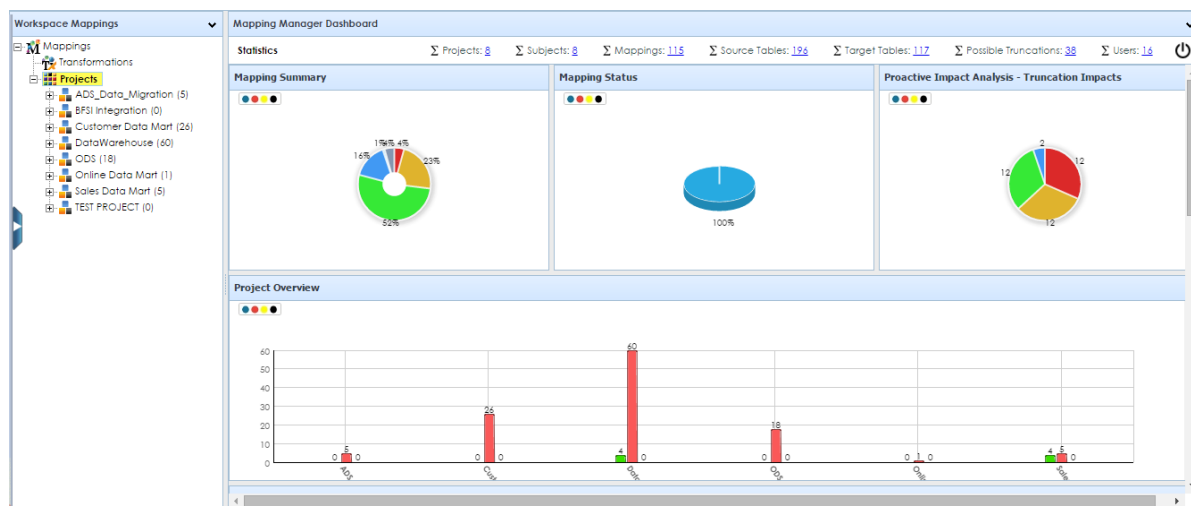
### Project Summary:

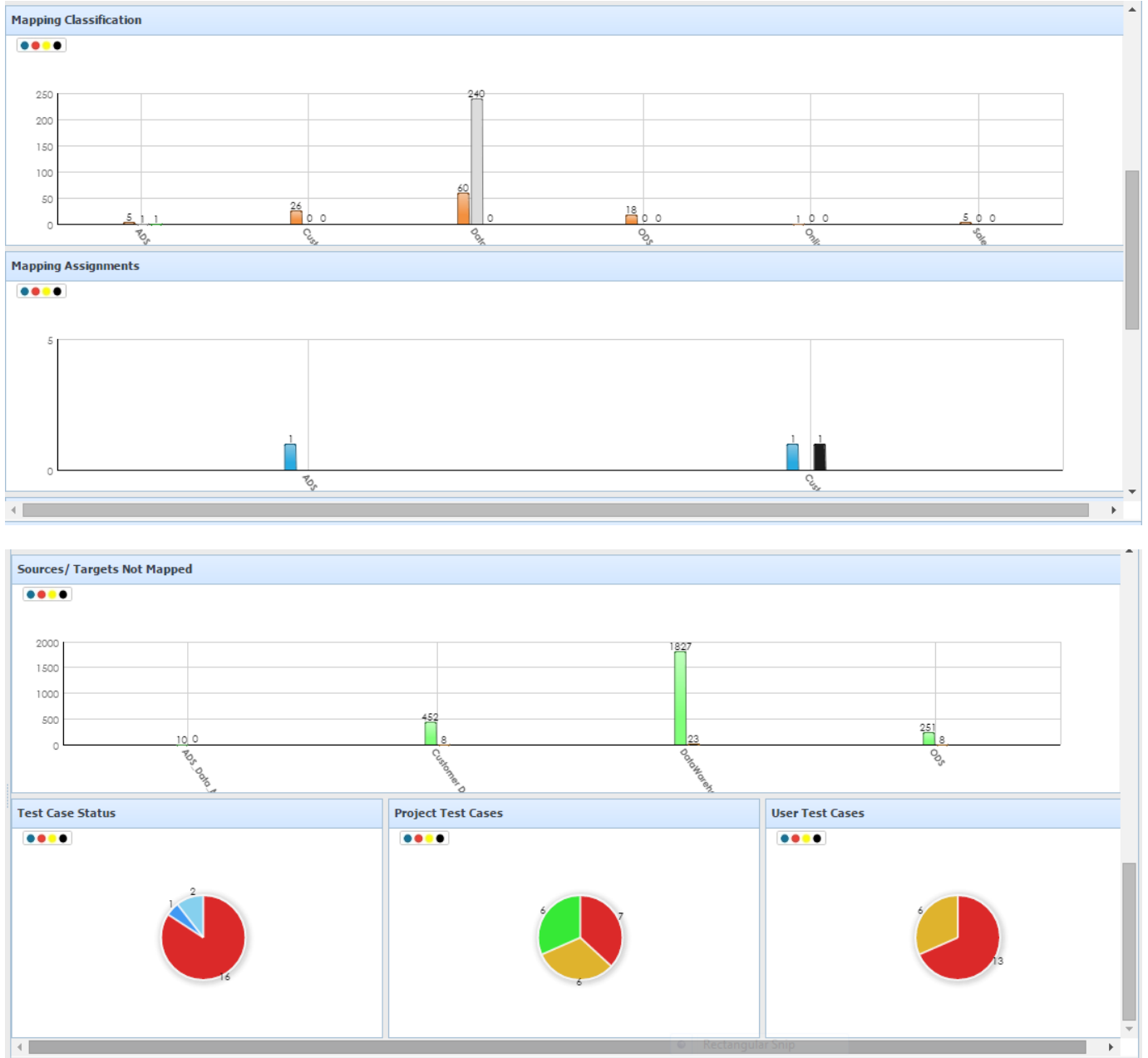
Workspace Mappings		Project Summary								
<div> <div>Mappings</div> <div>Transformations</div> <div>Projects</div> <div>ADS_Data_Migration (5)</div> <div>BFSI Integration (0)</div> <div>Customer Data Mart (26)</div> <div>DataWarehouse (60)</div> <div>ODS (18)</div> <div>Online Data Mart (11)</div> <div>Sales Data Mart (5)</div> </div>	#	Project Name	Project Description	Project Owner	Subjects Count	Mapping Count	Created By	Created Date Time	Last Modified By	Last Modified Date Time
	1	DataWarehouse	Enterprise Data Warehouse	Kartik Sridhar	4	60	Administrator	2015-03-10 10:43:38.037	Administrator	2015-03-13 07:35:38.173
	2	ODS	Operational Data Store	Brent Undertaker	0	18	Administrator	2015-03-10 10:44:09.487	Administrator	2015-03-18 05:14:00.457
	3	ADS_Data_Migrat		Lance Armstrong	0	5	Administrator	2015-03-10 10:44:43.77	Administrator	2015-03-18 05:13:23.51
	4	Online Data Mart		Russ Spencer	0	1	Administrator	2015-03-10 10:45:48.457	Administrator	2015-03-18 05:12:58.69
	5	BFSI Integration	Banking and Financial Sector Integration Project to build an EDW for banking domain	Mike Boggs	0	0	Administrator	2015-03-10 10:46:35.707	Administrator	2015-03-18 05:12:34.31
	6	Sales Data Mart	Building a Data Mart for Sales Organization	John Doe	4	5	Administrator	2015-03-18 04:56:44.69	Administrator	2015-03-18 05:11:48.717
	7	Customer Data Mart		Mike Boggs	0	26	Administrator	2015-03-18 04:57:04.617	Administrator	2015-03-18 05:11:15.457

### Mapping Manager Dashboard:

Dashboard gives a detailed overview of the following in a single window.

- ✓ Mapping Summary
- ✓ Mapping Status
- ✓ Proactive Impact Analysis – Truncation Impacts
- ✓ Project Overview
- ✓ Mapping Classification
- ✓ Mapping Assignments
- ✓ Sources/Targets not mapped
- ✓ Test case status
- ✓ Project Test cases
- ✓ User Test cases.





## 4.1 Define Projects

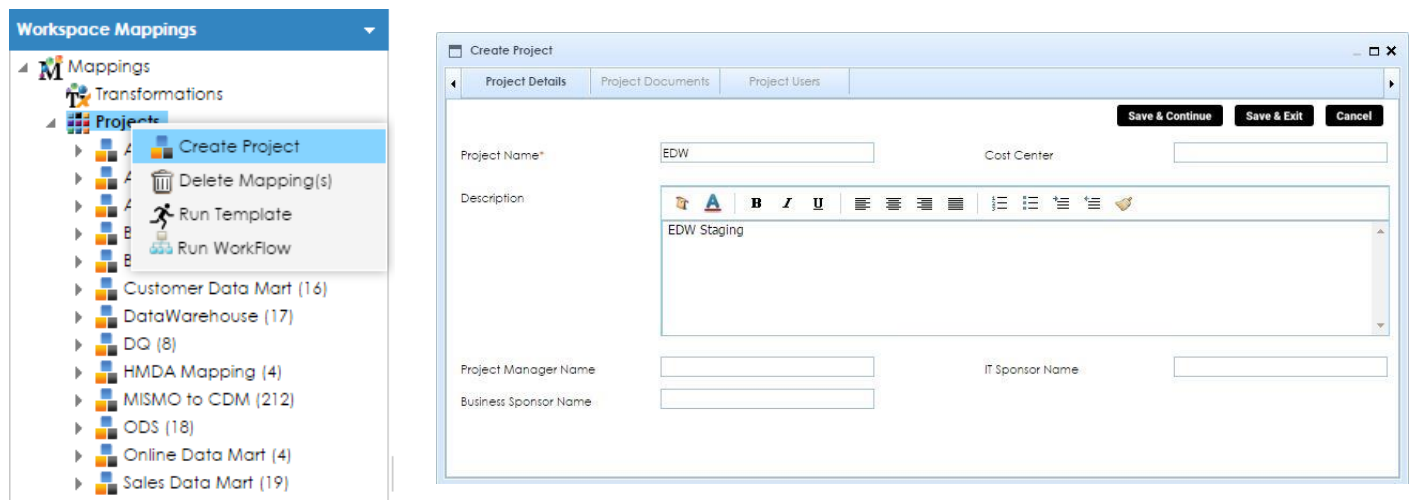
Now that you have purchased Mapping Manager, you have already taken the first step toward enterprise integration standards around managing the source to target mapping specification process.

You have access to create project in Mapping Manager module.

Go to the Mapping Manager Module and Click on Projects node. You can now see a list of available Projects within the Workspace mappings list.

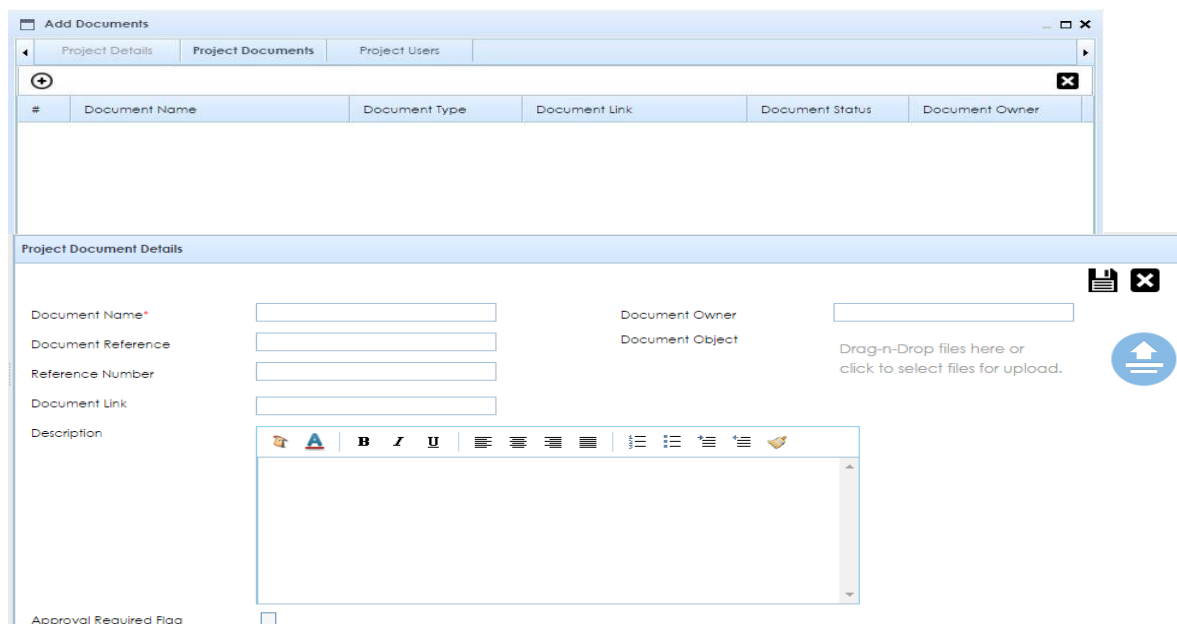
### Create a New Project:

1. You can create a new Project by right clicking the “Projects” node and selecting the “New Project” option. Enter the Project Details and click the “**Save & Exit**” icon to create the New project or click the “**Save & Continue**” icon to continue with adding project documents.



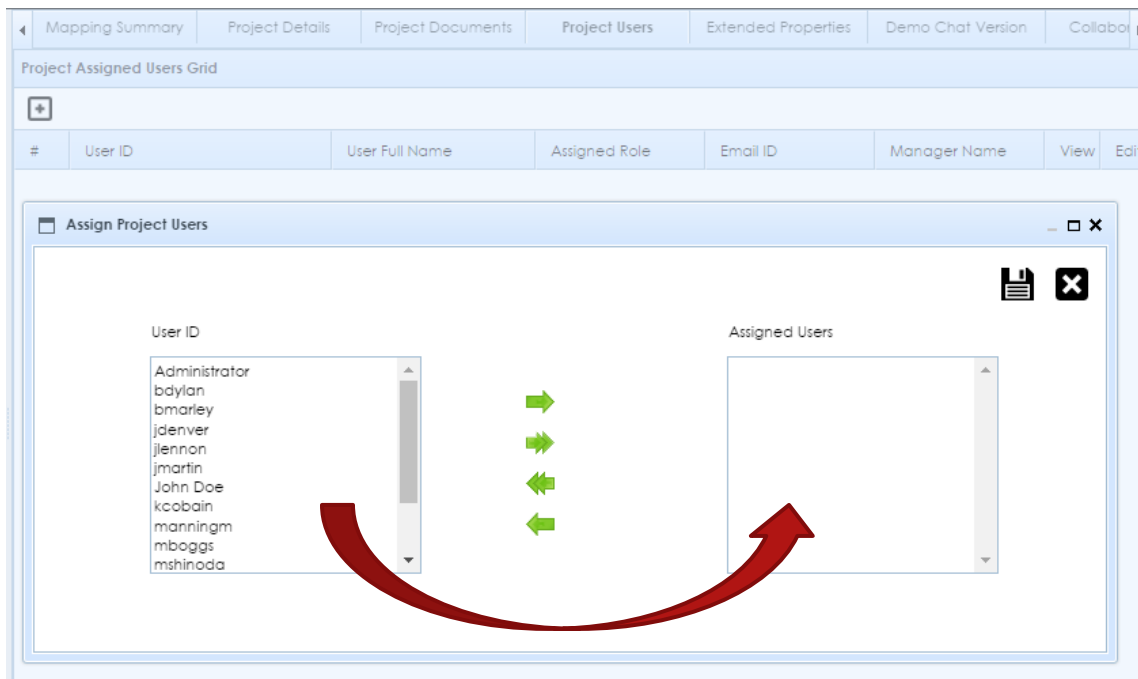
### Add Project Documentation

You can add documents to a Project by going into the “Project Documents” tab. Click the “Add” icons and enter the document details to upload and save.



## Add Users to a Project:

You can add Users to a project by clicking on a Project and going into the “Project Users” tab. Click the Add icon, select the users to add to the project and save.



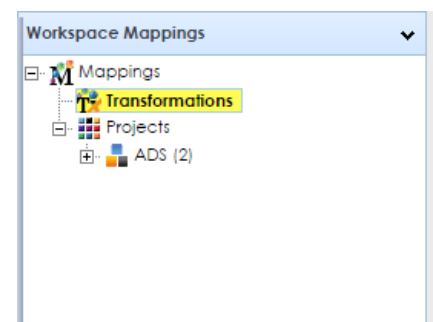
## 4.2 Define Transformations

*The next step is a critical step in the process of maintaining a complete set of enterprise standards. While The Mapping Manager is flexible enough to allow users to enter their own ‘free form’ transformations Analytix maintains this should be on an exception basis. Upon Setup it is highly recommended that clients define an exhaustive list of Enterprise Transformations that can be shared across the enterprise. This will not only drive standards but also, encourage use, streamline processes, efficiency and productivity of all constituents involved in the process now that they are using a set ‘enterprise transformations’ and familiar with the transformation name, term and use.*

### Define Enterprise Transformations:

Navigate to the Mapping Manager module and click on the Transformations Node.

Transformations (Business Rules) can be defined at either the enterprise level or the project level. Business rules defined at the enterprise level can be shared and reused across all integration projects. Project specific business rules are only applicable to the respective projects.



## 4.2.1 Enterprise and Project level Transformations

### Enterprise Transformations (Business Rules):

Enterprise Business Rules can be defined in the Transformations screen. Access to this screen is by clicking the “Transformation” option.

#	Transformation Name	Informatica Pseudocode	Intended Use	Scope	Published
1	1-DataGov(HighDate:12/31/9999)	To_date(mm/dd/yyyy,12/31/9999)	DataGovernance rule - use on all projects	All Projects	Y
2	2-DataGov(LowDate01/01/0001)	To_date(mm/dd/yyyy,01/01/0001)	DataGovernance rule - use on all projects	All Projects	Y
3	3-DataGov(AverageChurn)	Count(active customers)/(Count of Cancelled Customers for current month)	DataGovernance rule - use on all projects where financial reports are viewed and Churn KPIs are used.	All Projects	Y
4	ABORT	ABORT	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
5	ABS	ABS	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
6	ACS_TRANSFORM	IF THEN ELSE DEFINE COMPLEX LOGIC HERE		All Projects	Y
7	ADD_TO_DATE	ADD_TO_DATE	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
8	AES_DECRYPT	AES_DECRYPT	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
9	ASCII	ASCII	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
10	AVG	AVG	ETL Built in transformation (Aggregation)	All Projects	Y
11	BCBCKC Transform	test	test	BCBCKC	Y
12	CoreFirst_RULE_045	Join to DG_CD_DIMN to find the corresponding DG_CD_KEY matching the PATN_REAS_VIST_DG_CD_01 on claim and move it to CLM_HDR_ACUMD_SNPSHT_FACT. PATN_REAS_VIST_DG_CD_01_KEY. Continue this 3.		All Projects	Y


### Project specific Transformations (Business Rules):

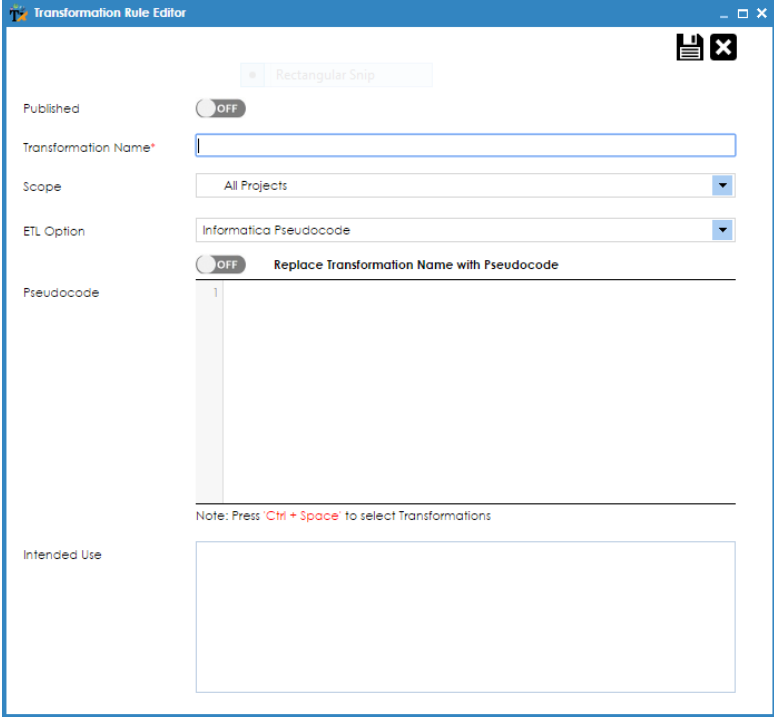
Project specific business rules can be defined. Access to this screen is by clicking the “Transformation” option under a particular project.

#	Transformation Name	Informatica Pseudocode	Intended Use	Scope	Published
1	1-DataGov(HighDate:12/31/9999)	To_date(mm/dd/yyyy,12/31/9999)	DataGovernance rule - use on all projects	All Projects	Y
2	2-DataGov(LowDate01/01/0001)	To_date(mm/dd/yyyy,01/01/0001)	DataGovernance rule - use on all projects	All Projects	Y
3	3-DataGov(AverageChurn)	Count(active customers)/(Count of Cancelled Customers for current month)	DataGovernance rule - use on all projects where financial reports are viewed and Churn KPIs are used.	All Projects	Y
4	ABORT	ABORT	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
5	ABS	ABS	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
6	ACS_TRANSFORM	IF THEN ELSE DEFINE COMPLEX LOGIC HERE		All Projects	Y
7	ADD_TO_DATE	ADD_TO_DATE	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
8	AES_DECRYPT	AES_DECRYPT	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
9	ASCII	ASCII	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
10	AVG	AVG	ETL Built in transformation (Aggregation)	All Projects	Y
11	CoreFirst_RULE_045	Join to DG_CD_DIMN to find the corresponding DG_CD_KEY matching the PATN_REAS_VIST_DG_CD_01 on claim and move it to CLM_HDR_ACUMD_SNPSHT_FACT. PATN_REAS_VIST_DG_CD_01_KEY. Continue this 3.		All Projects	Y

### Add New Transformations, Modify & Delete Existing Transformations

- **Add New Transformation:**

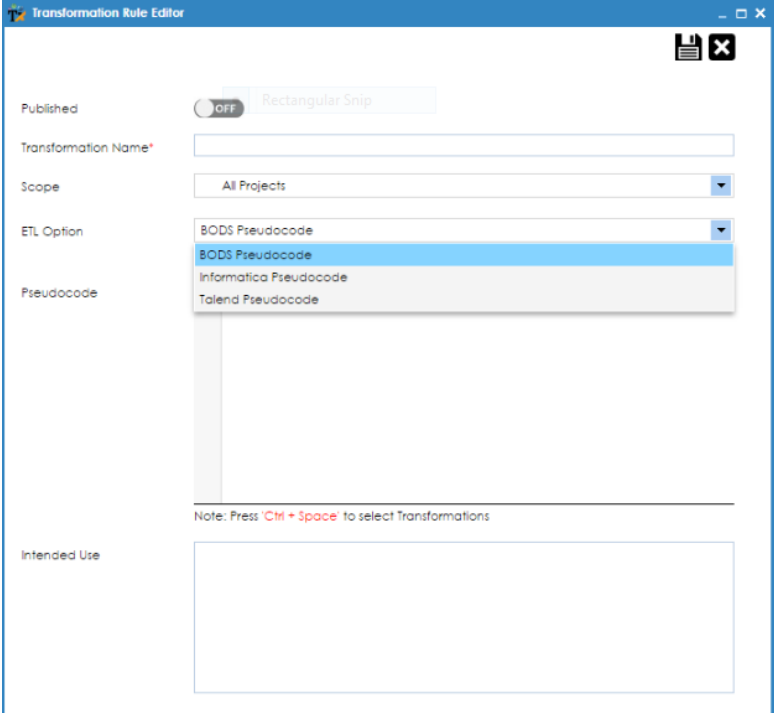
Click on “**Add Icon**”  on the right corner of the Transformation details window to add new transformation to the existing transformations list.



Enter the Transformation name and define the “**Scope**” of the Project from the dropdown.

Toggle the Published button **ON/OFF** to publish and use the transformations as per defined scope.


Grouping of transformations and Ability to provide pseudocode specific to ETL tool from the dropdown.

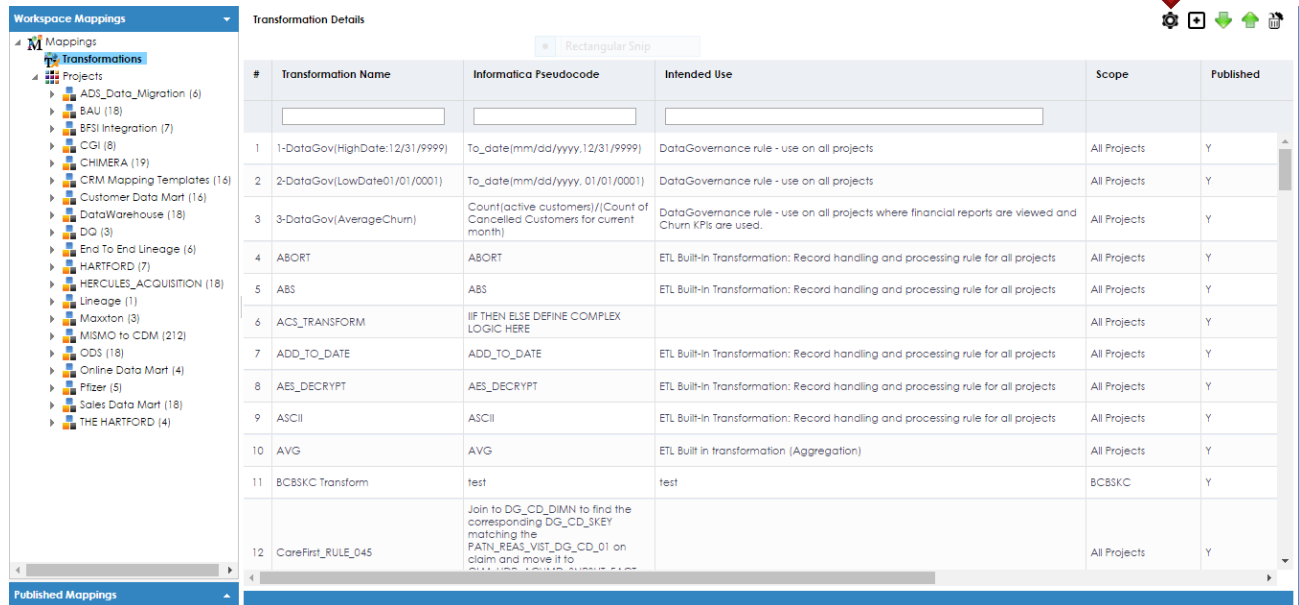




Selecting an ETL Option will add the ability to define the pseudo code specific to ETL tool in the global transformation library.

To add the ETL options to the library, Go to Transformations options at Enterprise level and click on ETL

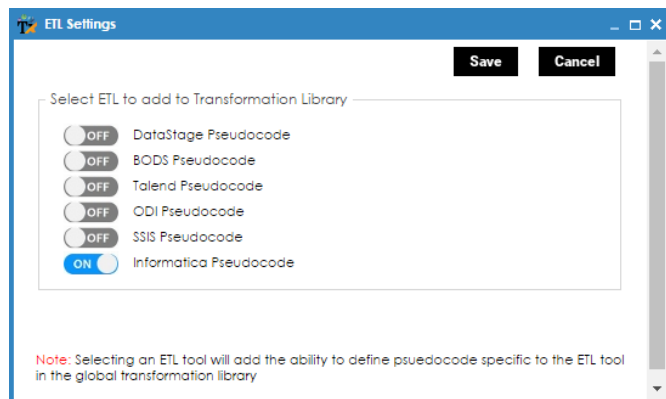
configuration  icon as shown in below screenshot.



The screenshot shows the Erwin workspace with the 'Transformations' tab selected. The left sidebar shows a tree view of 'Mappings' and 'Transformations'. The main area displays a table of transformations. A red arrow points to the 'ETL configuration' icon in the top right corner of the workspace.

#	Transformation Name	Informatica Pseudocode	Intended Use	Scope	Published
1	1-DataGov(HighDate:12/31/9999)	To_date(mm/dd/yyyy,12/31/9999)	DataGovernance rule - use on all projects	All Projects	Y
2	2-DataGov(LowDate01/01/0001)	To_date(mm/dd/yyyy, 01/01/0001)	DataGovernance rule - use on all projects	All Projects	Y
3	3-DataGov(AverageChurn)	Count(active customers)/(Count of Cancelled Customers for current month)	DataGovernance rule - use on all projects where financial reports are viewed and Churn KPIs are used.	All Projects	Y
4	ABORT	ABORT	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
5	ABS	ABS	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
6	ACS_TRANSFORM	IF THEN ELSE DEFINE COMPLEX LOGIC HERE		All Projects	Y
7	ADD_TO_DATE	ADD_TO_DATE	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
8	AES_DECRYPT	AES_DECRYPT	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
9	ASCII	ASCII	ETL Built-in Transformation: Record handling and processing rule for all projects	All Projects	Y
10	AVG	AVG	ETL Built in transformation (Aggregation)	All Projects	Y
11	BCBSKC Transform	test	test	BCBSKC	Y
12	CoreFirst_RULE_045	Join to DG_CD_DIMN to find the corresponding DG_CD_SKEY matching the PATN_REAS_VIST_DG_CD_01 on claim and move it to		All Projects	Y

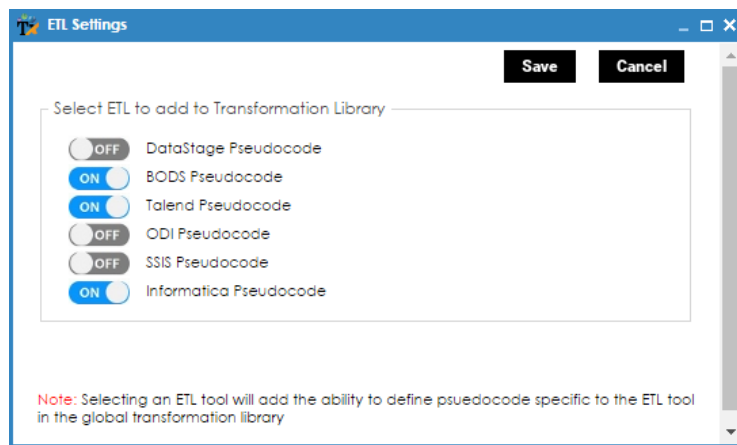
Select and toggle the ETL option which you want to add to the Transformation library.



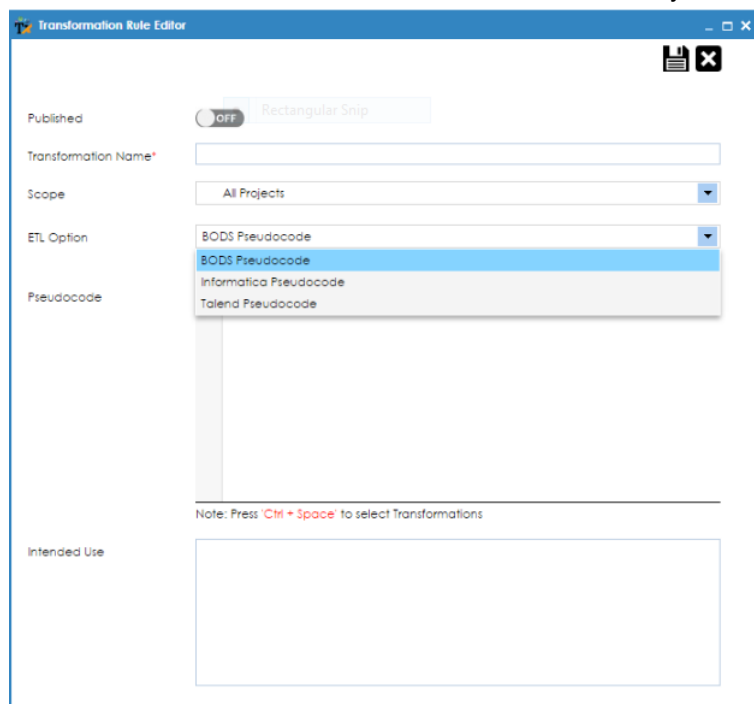
The screenshot shows the 'ETL Settings' dialog box. It contains a section titled 'Select ETL to add to Transformation Library' with a list of ETL tools and their corresponding pseudocode options. The 'Informatica Pseudocode' option is currently selected (ON).

ETL Tool	Pseudocode	Status
DataStage	Pseudocode	OFF
BODS	Pseudocode	OFF
Talend	Pseudocode	OFF
ODI	Pseudocode	OFF
SSIS	Pseudocode	OFF
Informatica	Pseudocode	ON

Note: Selecting an ETL tool will add the ability to define pseudocode specific to the ETL tool in the global transformation library



Click on 'Save' icon to add it to the Transformation library under ETL dropdown options as shown below.



- **Edit Transformation:**

Right Click on Transformation to edit transformation details and update the required values and in the same way you can even edit Pseudocode to update the required details.

Transformation Details					
#	Transformation Name	BODS Pseudocode	Informatica Pseudocode	Talend Pseudocode	Intended Use
1	1-DataGov(HighDate:12/31/9999)		To_date(mm/dd/yyyy,12/31/9999)		DataGovernance rule - use on all projects
2	2-DataGov(LowDate01/01/0001)		To_date(mm/dd/yyyy,01/01/0001)		DataGovernance rule - use on all projects
3	3-DataGov(AverageChurn)		Count(active customers)/(Count of Cancelled Customers for current month)		DataGovernance rule - use on all projects where Churn KPIs are used.
4	ABORT		ABORT		ETL Built-In Transformation: Record handling and processing rule for all projects
5	ABS		ABS		ETL Built-In Transformation: Record handling and processing rule for all projects
6	ACS_TRANSFORM		IF THEN ELSE DEFINE COMPLEX LOGIC HERE		All Projects
7	ADD_TO_DATE		ADD_TO_DATE		ETL Built-In Transformation: Record handling and processing rule for all projects
8	AES_DECRYPT		AES_DECRYPT		ETL Built-In Transformation: Record handling and processing rule for all projects
9	ASCII		ASCII		ETL Built-In Transformation: Record handling and processing rule for all projects
10	AVG		AVG		ETL Built in transformation (Aggregation)
11	BCBSKC Transform		test		BCBSKC
12	CareFirst_RULE_045		Join to DG_CD_DIMN to find the corresponding DG_CD_SKEY matching the PATN_REAS_VIST_DG_CD_01 on claim and move it to		All Projects


Transformation Details					
#	Transformation Name	Informatica Pseudocode	Intended Use	Scope	P
1	1-DataGov(HighDate:12/31/9999)	To_date(mm/dd/yyyy,12/31/9999)	DataGovernance rule - use on all projects	All Projects	
2	2-DataGov(LowDate01/01/0001)	To_date(mm/dd/yyyy,01/01/0001)	DataGovernance rule - use on all projects	All Projects	
3	3-DataGov(AverageChurn)	Count(active customers)/(Count of Cancelled Customers for current month)	DataGovernance rule - use on all projects where financial reports are viewed and Churn KPIs are used.	All Projects	
4	ABORT	ABORT	ETL Built-In Transformation: Record handling and processing rule for all projects	All Projects	
5	ABS	ABS	ETL Built-In Transformation: Record handling and processing rule for all projects	All Projects	
6	ACS_TRANSFORM	IF THEN ELSE DEFINE COMPLEX LOGIC HERE		All Projects	
7	ADD_TO_DATE	ADD_TO_DATE	ETL Built-In Transformation: Record handling and processing rule for all projects	All Projects	
8	AES_DECRYPT	AES_DECRYPT	ETL Built-In Transformation: Record handling and processing rule for all projects	All Projects	
9	ASCII	ASCII	ETL Built-In Transformation: Record handling and processing rule for all projects	All Projects	
10	AVG	AVG	ETL Built in transformation (Aggregation)	All Projects	
11	BCBSKC Transform	test	test	BCBSKC	
12	CareFirst_RULE_045	Join to DG_CD_DIMN to find the corresponding DG_CD_SKEY matching the PATN_REAS_VIST_DG_CD_01 on claim and move it to		All Projects	

- Delete Rule:**

Select a row corresponding to the business rule and right click to delete the business rule or you can use the delete icon in top right corner to delete the required business rule.




Transformation Details					
#	Transformation Name	BODS Pseudocode	Informatica Pseudocode	Talend Pseudocode	Intended Use
1	1-DataGov(HighDate:12/31/9999)		To_date(mm/dd/yyyy:12/31/9999)		DataGovernance rule - use on all projects
2	2-DataGov(LowDate01/01/0001)		To_date(mm/dd/yyyy:01/01/0001)		DataGovernance rule - use on all projects
3	3-DataGov(AverageChurn KPIs are used)		Count(active customers)/(Count of Cancelled Customers for current month)		DataGovernance rule - use on all projects where Churn KPIs are used.
4	ABORT		ABORT		ETL Built-in Transformation: Record handling and processing rule for all projects
5	ABS		ABS		ETL Built-in Transformation: Record handling and processing rule for all projects
6	ACS_TRANSFORM		IF THEN ELSE DEFINE COMPLEX LOGIC HERE		
7	ADD_TO_DATE		ADD_TO_DATE		ETL Built-in Transformation: Record handling and processing rule for all projects
8	AES_DECRYPT		AES_DECRYPT		ETL Built-in Transformation: Record handling and processing rule for all projects
9	ASCII		ASCII		ETL Built-in Transformation: Record handling and processing rule for all projects
10	AVG		AVG		ETL Built in transformation (Aggregation)
11	BC8SKC Transform		test		test
12	CareFirst_RULE_045		Join to DG_CD_DIMN to find the corresponding DG_CD_KEY matching the PATN_REAS_VIST_DG_CD_01 on claim and move it to		

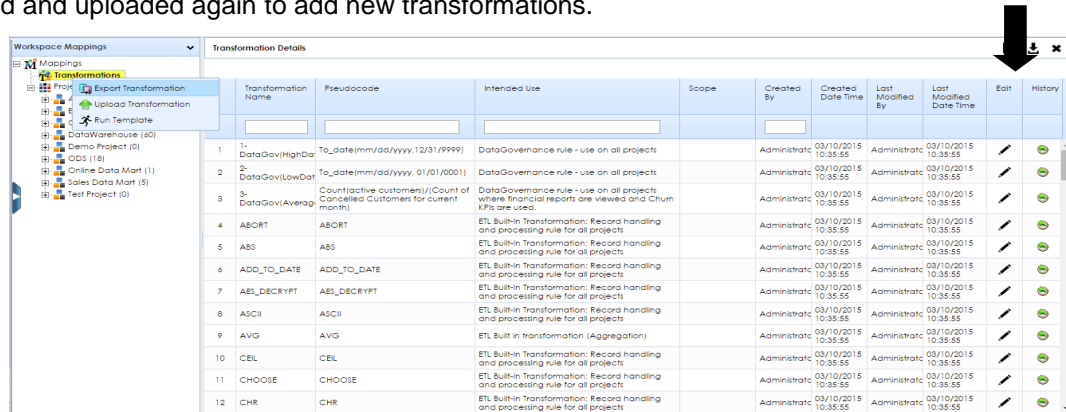
 If the transformation was used in Mapping Specifications it will still be there. The transformation will NOT be available as a 'selectable' transformation in the mapping specification data grid within the Business Rule column.

























AnalytiX advocates defining Enterprise Transformations should be a collaborative effort across projects and both Business Analyst (Mapping Designers) and ETL Developers (responsible for reading the mapping specifications and writing the procedural code)

## 4.2.2 Upload/Export Enterprise Transformations

### Upload (or) Export Enterprise Transformations

1. Click on the download Transformation template icon () to download the MS Excel file to enter the transformations.
2. Next, Right-Click on the transformation node and select Upload to browse for the file and load the transformations to the Grid.
3. Choosing Export Transformation will export all Transformations to MS Excel. The same file can then be edited and uploaded again to add new transformations.



Transformation Name	Pseudocode	Intended Use	Scope	Created By	Created Date Time	Last Modified By	Last Modified Date Time	Edit	History
1-DataGov(HighDate:12/31/9999)	To_date(mm/dd/yyyy:12/31/9999)	DataGovernance rule - use on all projects		Administrat	03/10/2015 10:35:55	Administrat	03/10/2015 10:35:55		
2-DataGov(LowDate01/01/0001)	To_date(mm/dd/yyyy:01/01/0001)	DataGovernance rule - use on all projects		Administrat	03/10/2015 10:35:55	Administrat	03/10/2015 10:35:55		
3-DataGov(AverageChurn KPIs are used)	Count(active customers)/(Count of Cancelled Customers for current month)	DataGovernance rule - use on all projects where financial reports are viewed and Churn KPIs are used.		Administrat	03/10/2015 10:35:55	Administrat	03/10/2015 10:35:55		
4-ABORT	ABORT	ETL Built-in Transformation: Record handling and processing rule for all projects		Administrat	03/10/2015 10:35:55	Administrat	03/10/2015 10:35:55		
5-ABS	ABS	ETL Built-in Transformation: Record handling and processing rule for all projects		Administrat	03/10/2015 10:35:55	Administrat	03/10/2015 10:35:55		
6-ADD_TO_DATE	ADD_TO_DATE	ETL Built-in Transformation: Record handling and processing rule for all projects		Administrat	03/10/2015 10:35:55	Administrat	03/10/2015 10:35:55		
7-AES_DECRYPT	AES_DECRYPT	ETL Built-in Transformation: Record handling and processing rule for all projects		Administrat	03/10/2015 10:35:55	Administrat	03/10/2015 10:35:55		
8-ASCII	ASCII	ETL Built-in Transformation: Record handling and processing rule for all projects		Administrat	03/10/2015 10:35:55	Administrat	03/10/2015 10:35:55		
9-AVG	AVG	ETL Built in transformation (Aggregation)		Administrat	03/10/2015 10:35:55	Administrat	03/10/2015 10:35:55		
10-CEL	CEL	ETL Built-in Transformation: Record handling and processing rule for all projects		Administrat	03/10/2015 10:35:55	Administrat	03/10/2015 10:35:55		
11-CHOOSE	CHOOSE	ETL Built-in Transformation: Record handling and processing rule for all projects		Administrat	03/10/2015 10:35:55	Administrat	03/10/2015 10:35:55		
12-CHR	CHR	ETL Built-in Transformation: Record handling and processing rule for all projects		Administrat	03/10/2015 10:35:55	Administrat	03/10/2015 10:35:55		

## 4.2.3 View Audit Trail and Change History for a Transformation

### View Audit Trail and Change History for a Transformation:

Click the  Icon and the audit trail and change history of the Transformation will be displayed

Workspace Mappings		Transformation Details									
Mappings		Transformation Name	Pseudocode	Intended Use	Scope	Created By	Created Date Time	Last Modified By	Last Modified Date Time	Edit	History
Transformations (50)		1- DataGov(HighDa	To_date(mm/dd/yyyy,12/31/9999)	DataGovernance rule - use on all projects		Administratc	03/10/2015 10:35:55	Administratc	03/10/2015 10:35:55		
ODS (18)		2- DataGov(LowDa	To_date(mm/dd/yyyy, 01/01/0001)	DataGovernance rule - use on all projects		Administratc	03/10/2015 10:35:55	Administratc	03/10/2015 10:35:55		
Online Data Mart (1)		3- DataGov(Averag	Count(active customers)/(Count of Cancelled Customers for current month)	DataGovernance rule - use on all projects where financial reports are viewed and Churn KPIs are used.		Administratc	03/10/2015 10:35:55	Administratc	03/10/2015 10:35:55		
Sales Data Mart (5)		4. ABORT	ABORT	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/10/2015 10:35:55	Administratc	03/10/2015 10:35:55		
Test Project (0)		5. ABS	ABS	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/10/2015 10:35:55	Administratc	03/10/2015 10:35:55		
		6. ADD_TO_DATE	ADD_TO_DATE	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/10/2015 10:35:55	Administratc	03/10/2015 10:35:55		
		7. AES_DECRYPT	AES_DECRYPT	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/10/2015 10:35:55	Administratc	03/10/2015 10:35:55		
		8. ASCII	ASCII	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/10/2015 10:35:55	Administratc	03/10/2015 10:35:55		
		9. AVG	AVG	ETL Built in transformation (Aggregation)		Administratc	03/10/2015 10:35:55	Administratc	03/10/2015 10:35:55		
		10. CBL	CBL	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/10/2015 10:35:55	Administratc	03/10/2015 10:35:55		
		11. CHOOSE	CHOOSE	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/10/2015 10:35:55	Administratc	03/10/2015 10:35:55		
		12. CHR	CHR	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/10/2015 10:35:55	Administratc	03/10/2015 10:35:55		

## 4.2.4 Impact Analysis Report for Transformations

### Impact Analysis Report for Transformations:

Select the transformation name in the data grid and Right-Click to choose default or advanced search.

Default will pass the transformation name and immediately perform a search. Advanced search will prompt an editable dialog box for user to enter wildcard like searches (e.g. **DataGo** will display transformation match on all like base searches, '**DataGov**' and '**DataGovernance**' entries will all be returned).

#	Transformation Name	Pseudocode	Intended Use	Scope	Created By	Created Date Time	Last Modified By	Last Modified Date Time	History
47	LENGTH	LENGTH	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/13/2014 14:17:54	Administratc	03/13/2014 14:17:54	
48	LN	LN	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/13/2014 14:17:54	Administratc	03/13/2014 14:17:54	
49	LOG	LOG	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/13/2014 14:17:54	Administratc	03/13/2014 14:17:54	
50	LOOKUP	LOOKUP	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/13/2014 14:17:54	Administratc	03/13/2014 14:17:54	
51	LOWER	LOWER	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/13/2014 14:17:54	Administratc	03/13/2014 14:17:54	
52	LPAD	LPAD	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/13/2014 14:17:54	Administratc	03/13/2014 14:17:54	
53	LTRIM	LTRIM	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/13/2014 14:17:54	Administratc	03/13/2014 14:17:54	
54	MAKE_DATE_TIME	MAKE_DATE_TIME	ETL Built-In Transformation: Record handling and processing rule for all projects		Administratc	03/13/2014 14:17:54	Administratc	03/13/2014 14:17:54	
55	MAX	MAX	ETL Built in transfor		Administratc	03/13/2014 14:17:54	Administratc	03/13/2014 14:17:54	
56	MDS	MDS	ETL Built-In Transfor		Administratc	03/13/2014 14:17:54	Administratc	03/13/2014 14:17:54	
57	MEDIAN	MEDIAN	ETL Built in transfor		Administratc	03/13/2014 14:17:54	Administratc	03/13/2014 14:17:54	

**Default Search**

Impact Analysis Reports

Project Name	Mapping Name	Map Specification Version	Business Rule
LAR MISMO MAPPINGS	LAR_VENDOR_SPEC	1.01	LTRIM

## 4.3 Create and Manage Mapping Specifications

Now that you have created an exhaustive list of ‘Enterprise Transformations’ (although you will want revisit and audit the use non-enterprise transformations routinely) we can now begin to create fully metadata driven source to target mapping specifications.

The Mapping Manager supports four ways of creating a mapping specification.

In this section, you will learn

- Auto Mapping
- Fully Metadata Driven Mapping Approach (Drag & Drop)
- Manually enter (free form)
- Upload Mapping Specifications from ADS Template
- Preview Data from Actual Databases
- Viewing, locking and unlocking mapping specification “Write Locks”

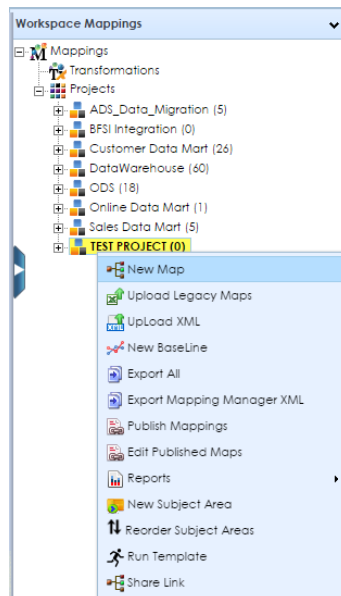


Analytix advocates use of the fully metadata driven Mapping Approach to drive mapping standards, reduce data entry errors, increase quality of the mapping specifications and allow greater use of metadata reporting and impact analysis at the column metadata level. Manually Entered Mapping Specifications should be used on a case by case and exception basis only.

### 4.3.1 Auto Mapping functionality

Create Mapping Specifications using “**Auto Map**” technique as follows:

1. Right click on the project node and select the “New Map” option to create a new Mapping Specification. Menu displays as shown
2. Select New Map, Enter the Mapping Specification details. Click “**Next**” icon to create new map.



3. New Mapping wizard allow you to enter Mapping details and **“Proceed with AutoMap”** option.

New Mapping Wizard

1. Create a New Mapping

Mapping Name\*

Mapping Version

Version Label

Sync Source Metadata ☐

Sync Target Metadata ☐

Job Name XRef

Mapping Description

Mail Comments

Rectangular Snip

Proceed with Auto Map Finish Cancel

4. Enter Mapping name with mandatory fields and click on **“Proceed with Auto Map”** to create a map automatically.

New Mapping Wizard

1. Create a New Mapping

Mapping Name\*

Mapping Version

Version Label

Sync Source Metadata ☐

Sync Target Metadata ☐

Job Name XRef

Mapping Description

Mail Comments

Proceed with Auto Map Finish Cancel

5. Create New Mapping wizard window opens to define the Mappings groups with Target/Source tables from the metadata repository to preview a map.

**Define and Rename the Mappings Groups**

**Define Target and Source Objects**

**Metadata Repository**

**Auto Mapping Preview Grid**

**Enabling this option allows to create distinct mapping for each group**

#	Target System	Target Environment	Target Object	Target Attribute	Source Attribute	Source Object	Source Environment	Source System

Total Rows: 0 | Target Tables: 0 | Source Tables: 0 | Targets Not Mapped: 0 | Sources Not Mapped: 0

☐ Create a distinct Mapping for every Group

6. Select and Drag/Drop the Target table to Target objects and Source table to Source objects from the right side window which displays all the metadata repository with all tables and columns from the systems in which you want to build your mapping specification.

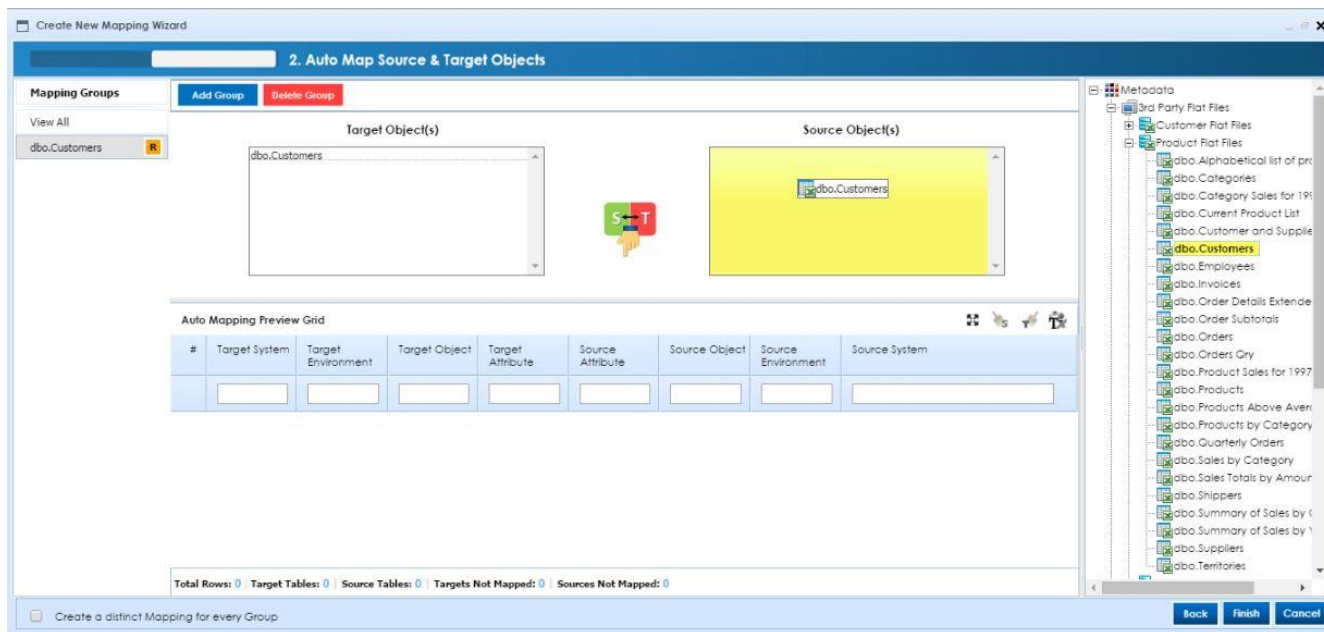
**Auto Mapping Preview Grid**

#	Target System	Target Environment	Target Object	Target Attribute	Source Attribute	Source Object	Source Environment	Source System
1	Sales	PROD	dbo.Customers	CustomerID	CustomerID	Customer	PROD	Sales

Total Rows: 1 | Target Tables: 1 | Source Tables: 1 | Targets Not Mapped: 0 | Sources Not Mapped: 0


☐ Create a distinct Mapping for every Group

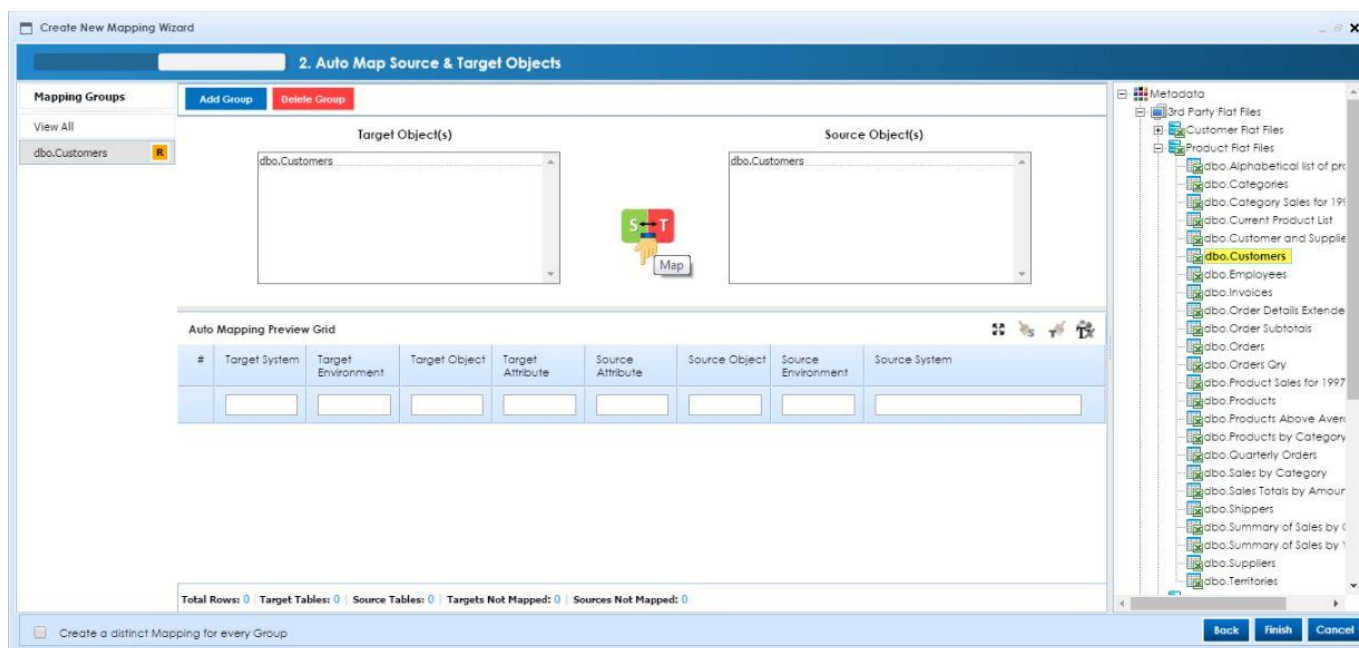




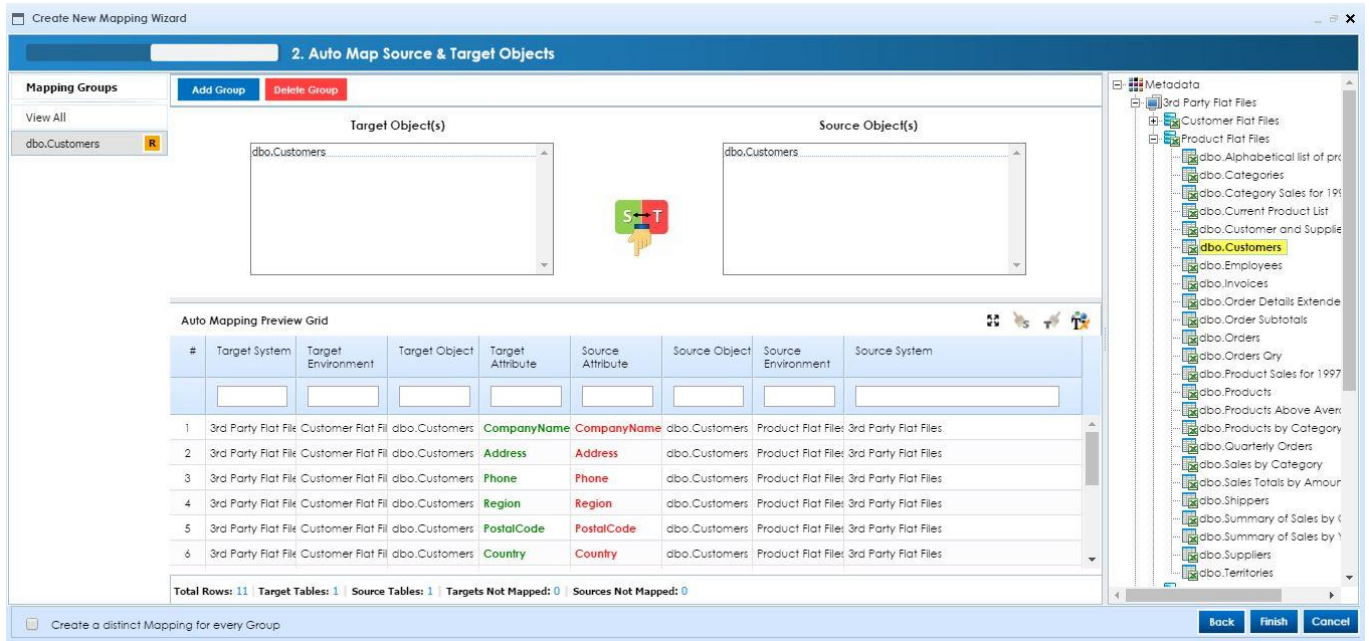
You can group and categorize the groups by using the target objects defined. Click on Add group icon to add a new group.

Click on rename icon  to rename the group.

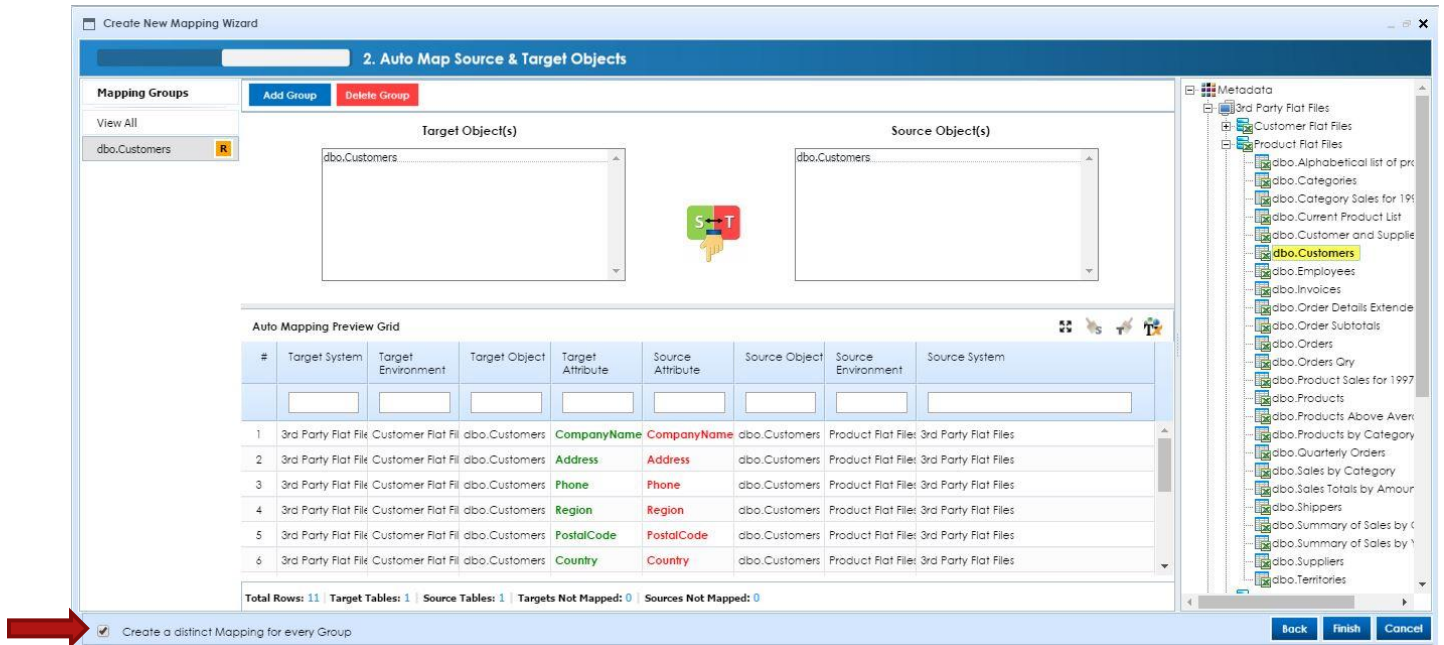
7. Click on “Map icon”  to map the defined source and target objects.



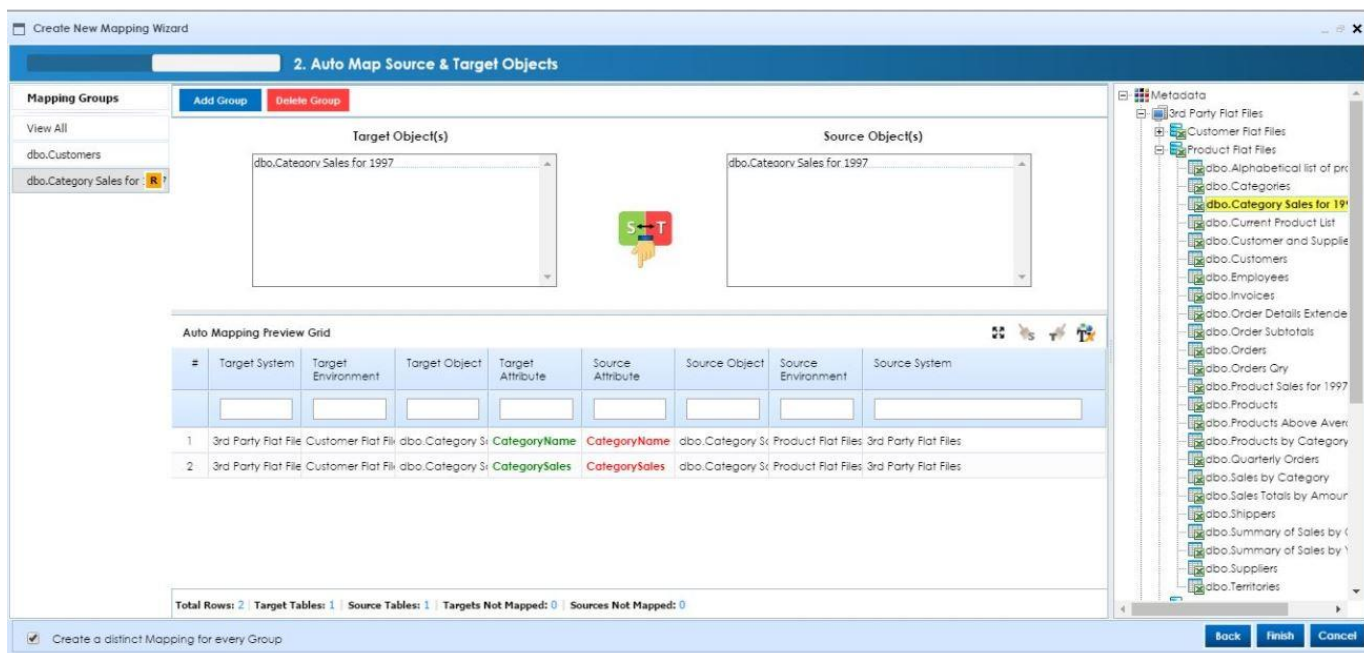
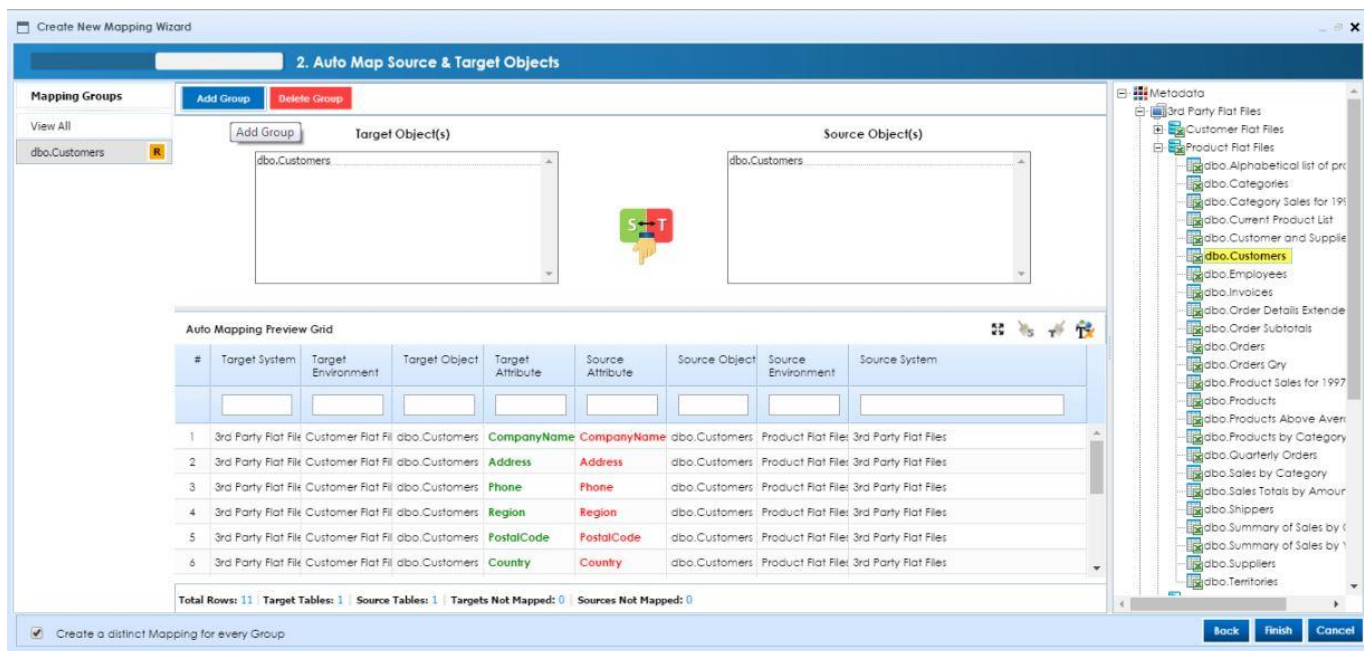
Once you click on the Map icon all the Target and Source objects are moved to Auto Mapping preview grid where all the source/target tables are mapped automatically.




8. Check the option “**Create a distinct Mapping for every Group**” it gives ability to create Multiple Mappings in one go.

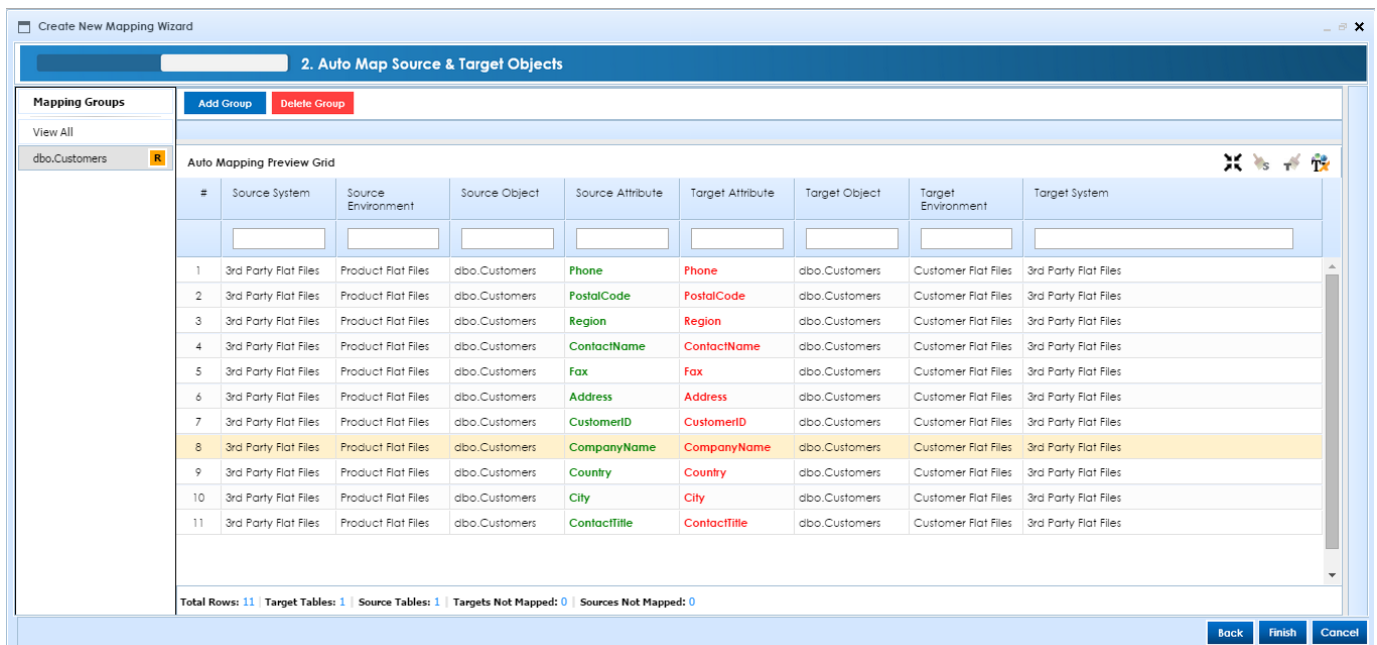
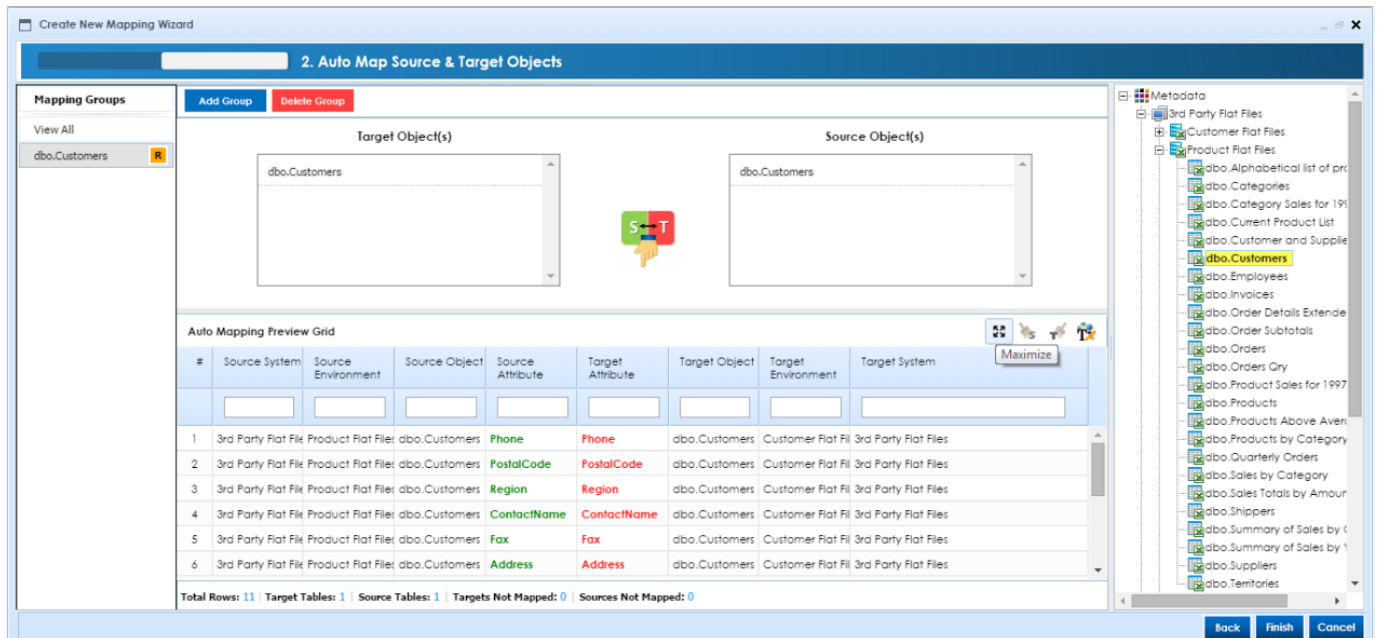




Click on Add group icon to add a new group.




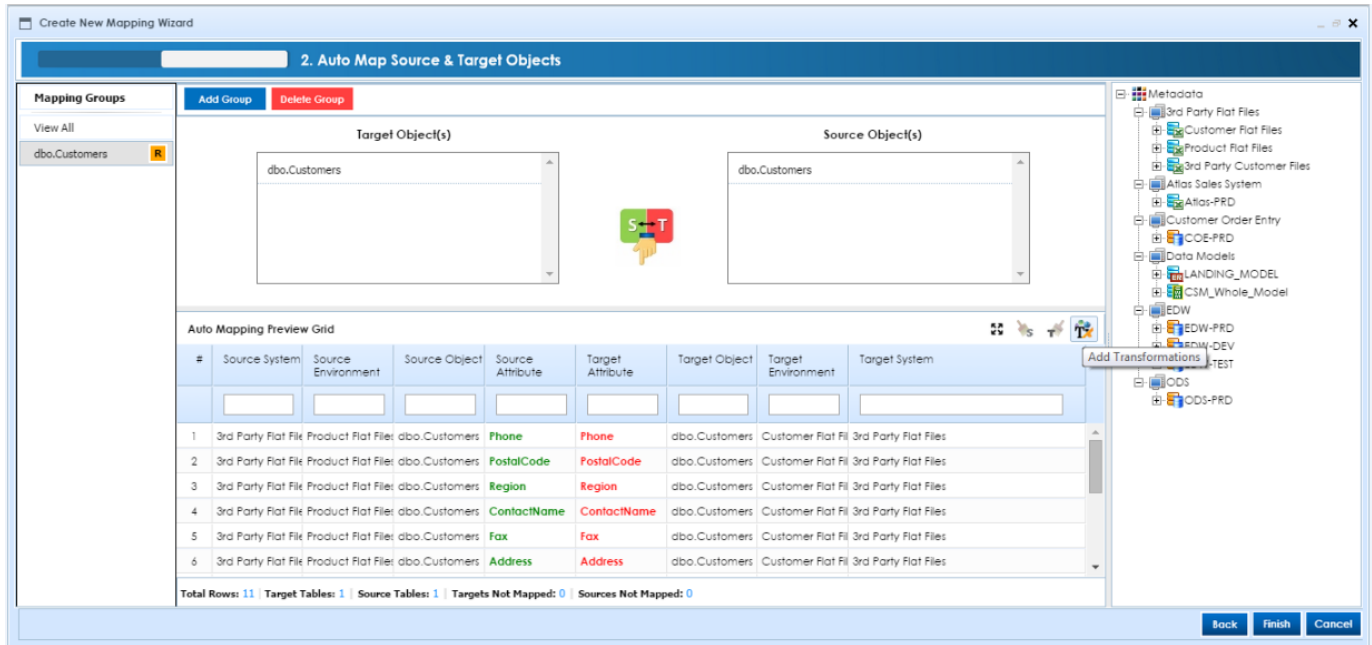
Click Finish icon to create Multiple Mappings in one go using this Auto Map Group Feature

9. Click maximize icon  to maximize the Auto map preview grid.

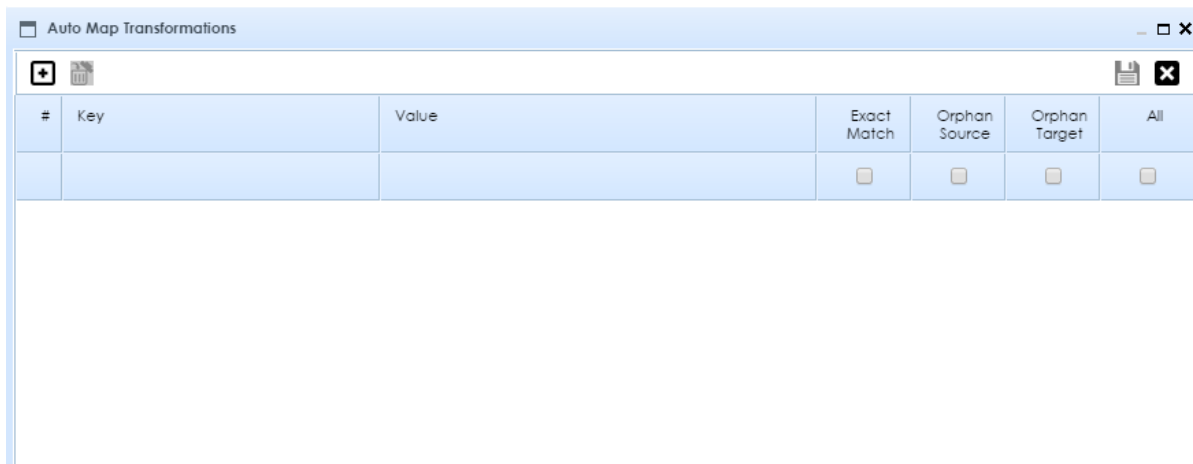


Mapping specification Preview window opens with all Source and Target columns defined, you can delete any Orphan Source/Target metadata by selecting “Delete Sources Targets”  or “Delete Target Orphans” icon .

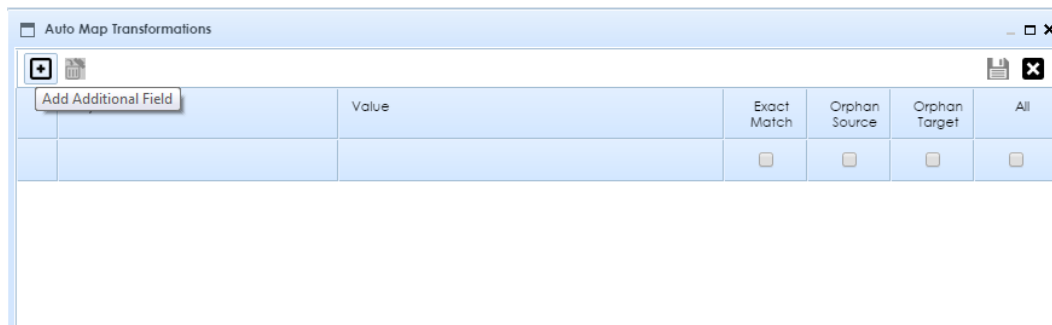
10. Once the Source and Target objects are defined, you can even define Transformations here. Click on  icon to all define new transformations.



Auto Map Transformations windows opens up to add a new key and its value.



Click on All Additional Filed icon  to add new field.





#	Key	Value	Exact Match	Orphan Source	Orphan Target	All
1	Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Double click on the cell to add Business Rule, Extended Business Rule Transformation, Lookup Reference Column, Lookup On, etc., and its respective value from the dropdown.

#	Key	Value	Exact Match	Orphan Source	Orphan Target	All
1	Select		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#	Key	Value	Exact Match	Orphan Source	Orphan Target	All
1	Business Rule		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Click on save icon to define the Transformation automatically in the mapping grid.

#	Key	Value	Exact Match	Orphan Source	Orphan Target	All
1	Business Rule	TRUNC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

11. Click Finish icon, New Map is created successfully with all TGT and SRC columns defined in the Mapping specification grid.

The screenshot shows the Erwin Mapping Specification window. The main table lists mappings for 'Auto\_Map' with the following columns: #, Target System Name, Target Environment Name, Target Table Name, Target Column Name, Business Rule, Source System Name, and Source Environment Name.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Business Rule	Source System Name	Source Environment Name
1	EDW	EDW-PRD	dbo.Customers	Region	TO_DECIMAL	3rd Party Flat Files	3rd Party Customer Files
2	EDW	EDW-PRD	dbo.Customers	PostalCode	UPPER	3rd Party Flat Files	3rd Party Customer Files
3	EDW	EDW-PRD	dbo.Customers	Phone	LTRIM	3rd Party Flat Files	3rd Party Customer Files
4	EDW	EDW-PRD	dbo.Customers	Fax	TRUNC	3rd Party Flat Files	3rd Party Customer Files

Additional Mapping Information:

- Map Id: 1154
- Specification Name: Auto\_Map
- Map Specification Version: 1.00

Metadata Catalogue (Right Panel):

- Technical Properties:
  - Table Name: DimCus
  - Environment Name: 3rd Parti
  - System Name: 3rd Parti
  - Rows: 0
  - Modified By: Adminit
  - Modified Time: 03/18/2
- Code Mappings Catalogue
- Specification Artifact Catalogue
- Reference Table Catalogue

12. Once you create the Map in Auto mode feature and later If you want to define any new source or target to the existing Map you can edit the map, from the Metadata repository on the right hand side window, Right click on the Table and select “Auto Map” which you want to use in the Map “As Source” or “As Target”.

The screenshot shows the Erwin Mapping Specification window for 'AUTO\_MAP'. The main table lists mappings for 'AUTO\_MAP' with the following columns: #, Target System Name, Target Environment Name, Target Table Name, Target Column Name, Target Column Data Type, Target Column Length, and Target Column Precision.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision
1	3rd Party Flat Files	Customer Flat Files	dbo.Categories	CategoryID	int	4	10
2	3rd Party Flat Files	Customer Flat Files	dbo.Categories	CategoryName	nvarchar	15	0
3	3rd Party Flat Files	Customer Flat Files	dbo.Categories	Description	ntext	16	0
4	3rd Party Flat Files	Customer Flat Files	dbo.Categories	Picture	image	16	0

Additional Mapping Information:

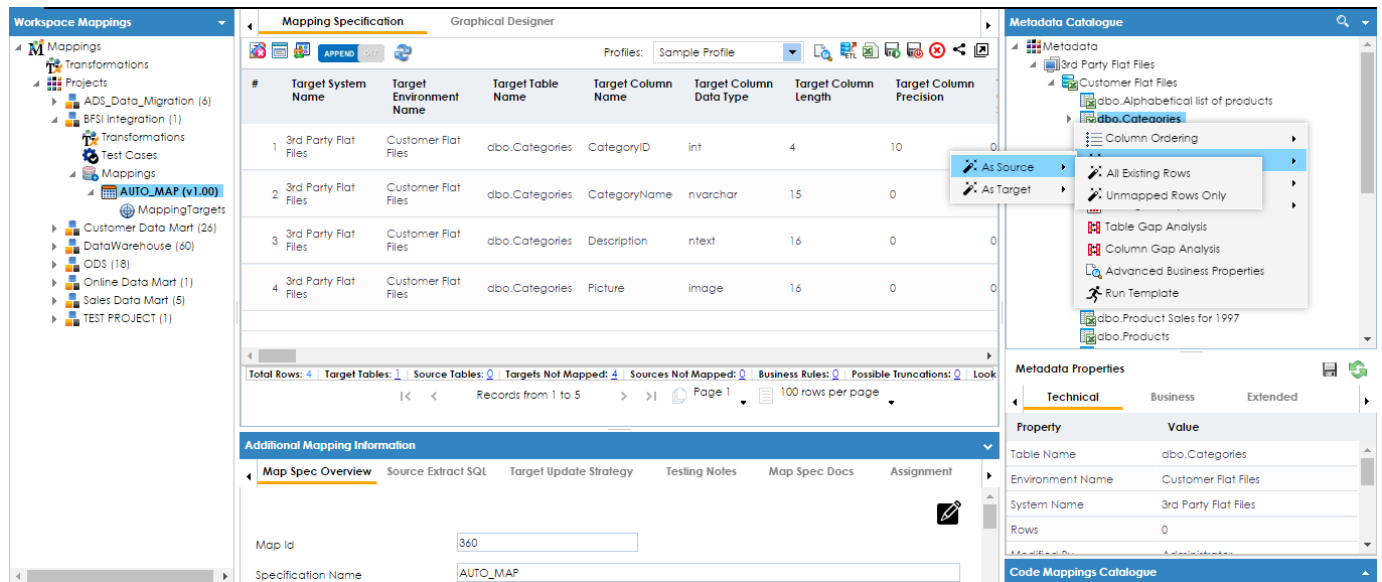
- Map Id: 360
- Specification Name: AUTO\_MAP

Metadata Catalogue (Right Panel):

- Technical Properties:
  - Table Name: dbo.Categories
  - Environment Name: Customer Flat Files
  - System Name: 3rd Party Flat Files
  - Rows: 0
- Code Mappings Catalogue

A context menu is open over the 'dbo.Categories' table in the Metadata Catalogue, showing options: 'As Source', 'As Target', and 'Auto Map'.

Click on auto Map “As source” or “As Target” add it to all rows or for only unmapped rows.



Once the Auto-Map option is ON, now Click the columns you want as either a source or target and drag to 'any' of the source (SRC) or target (TGT) column as shown below, which automatically populates the Select Source/Target Metadata window to select the required columns.

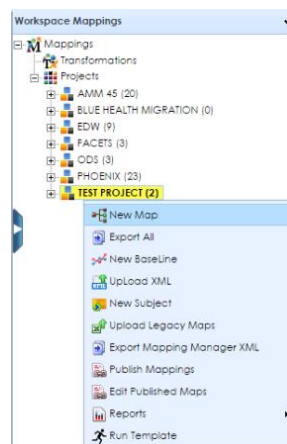
Click “Save and Continue” to save the map to complete the Map creation.

#### 4.3.2 Fully Metadata Driven approach (Drag/Drop)

##### Fully Metadata Driven Mapping Approach - Grid View (Drag & Drop):

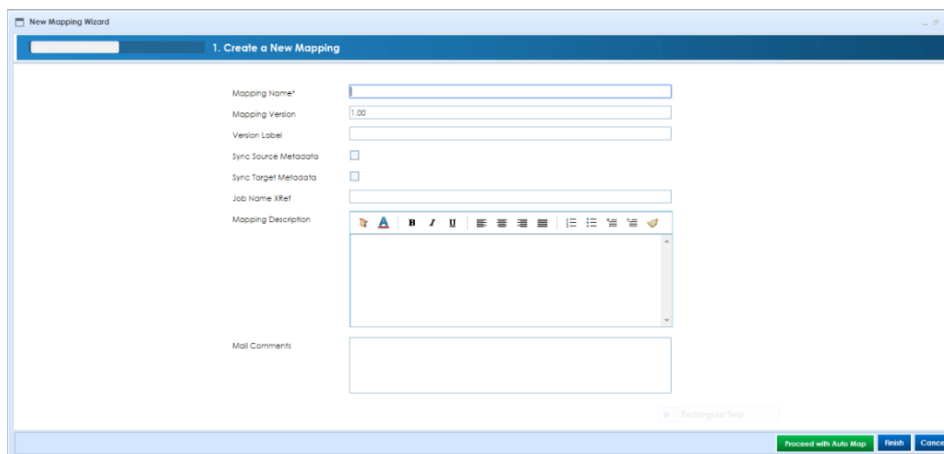
Create Mapping Specifications using **Drag & Drop technique** as follows:

1. Right click on the project node and select the “New Map” option to create a new Mapping Specification. Menu displays as shown.





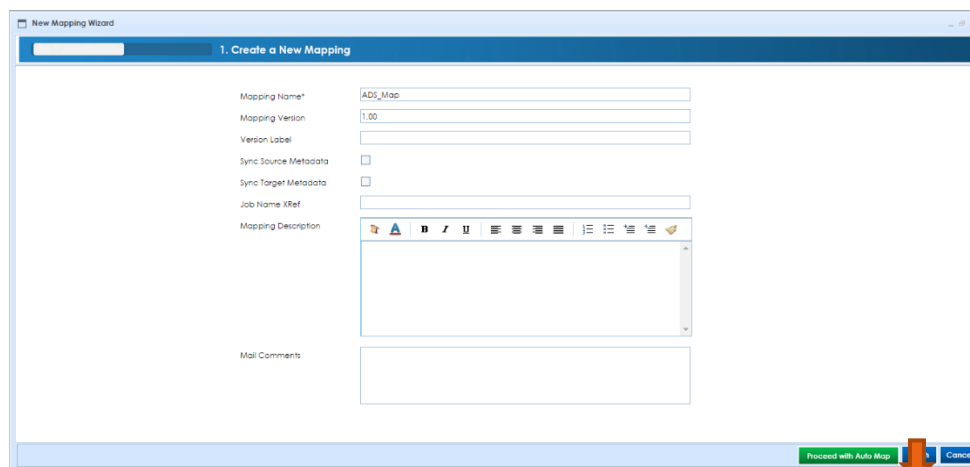
2. Select New Map, Enter the Mapping Specification details. Click **“Finish”** icon to proceed with new map creation manually.



The screenshot shows the 'New Mapping Wizard' window, step 1: 'Create a New Mapping'. The form includes the following fields:

- Mapping Name\*: (empty text box)
- Mapping Version: 1.00
- Version Label: (empty text box)
- Sync Source Metadata: ☐
- Sync Target Metadata: ☐
- Job Name XRef: (empty text box)
- Mapping Description: (empty text area with a rich text editor toolbar)
- Mail Comments: (empty text area)

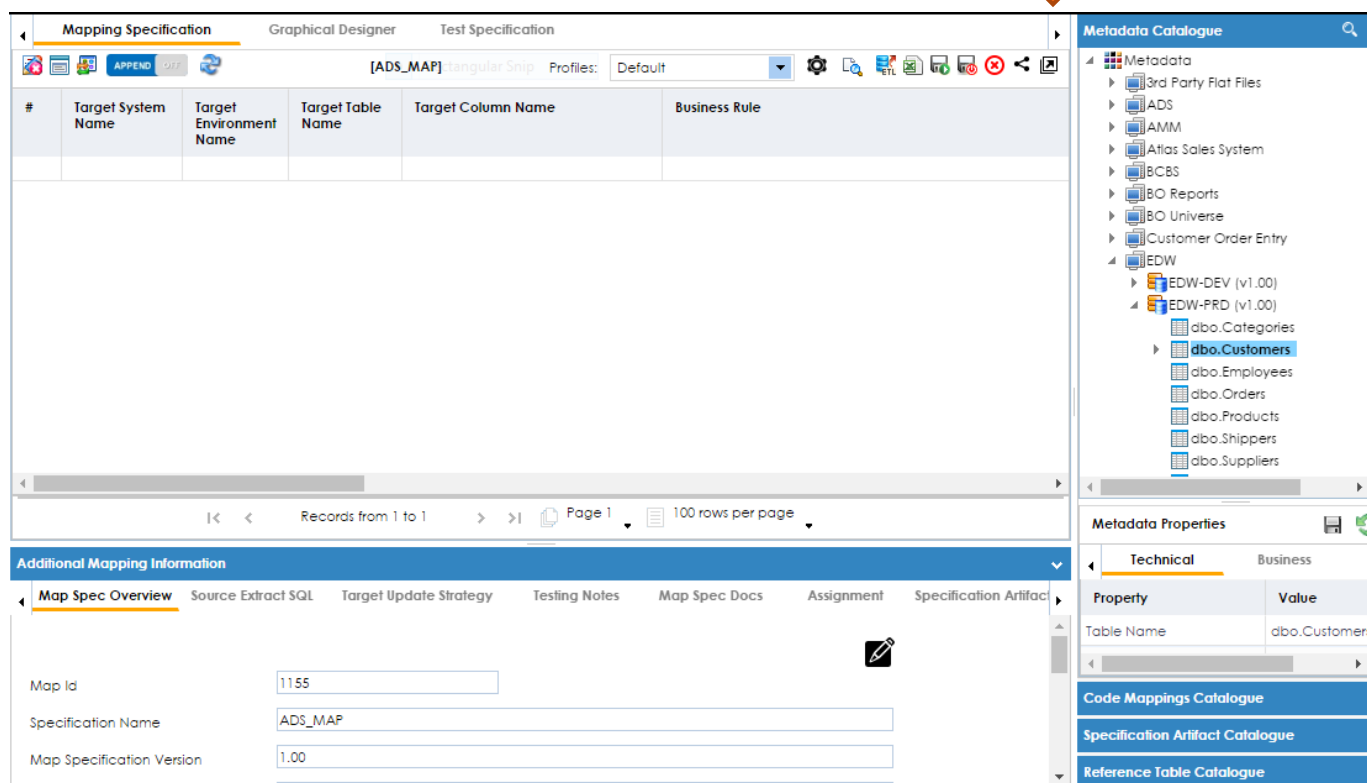
At the bottom right, there are three buttons: 'Proceed with Auto Map' (green), 'Finish' (blue), and 'Cancel' (blue). A red arrow points to the 'Finish' button.



This screenshot shows the same 'New Mapping Wizard' window, but with the following values entered:

- Mapping Name\*: ADS\_Map
- Mapping Version: 1.00
- Version Label: (empty)
- Sync Source Metadata: ☐
- Sync Target Metadata: ☐
- Job Name XRef: (empty)
- Mapping Description: (empty)
- Mail Comments: (empty)

The 'Finish' button is highlighted with a red arrow.



The screenshot displays the 'Mapping Specification' window. The 'Mapping Specification' tab is active, showing a table with the following columns: #, Target System Name, Target Environment Name, Target Table Name, Target Column Name, and Business Rule. The table is currently empty.

Below the table, the 'Additional Mapping Information' section is visible, showing the following details:

- Map Id: 1155
- Specification Name: ADS\_MAP
- Map Specification Version: 1.00

On the right side, the 'Metadata Catalogue' is open, showing a tree view of metadata. The 'EDW-PRD (v1.00)' folder is expanded, and the 'dbo.Customers' table is selected. Below the catalogue, the 'Metadata Properties' section shows the 'Table Name' property with the value 'dbo.Customers'.

Click on “Edit” icon

The screenshot shows the Erwin Mapping Specification interface. The 'Mapping Specification' tab is active, displaying a table with columns: #, Target System Name, Target Environment Name, Target Table Name, Target Column Name, and Business Rule. An orange arrow points to the 'Target Column Name' header. Below the table, the 'Additional Mapping Information' section contains fields for Map Id (1155), Specification Name (ADS\_MAP), and Map Specification Version (1.00). On the right, the 'Metadata Catalogue' shows a tree view with 'dbo.Customers' selected. The 'Metadata Properties' section shows 'Table Name' as 'dbo.Customers'.

- From the Metadata Browser expand all nodes to see tables and columns from the systems in which you want to build your mapping specification from.
- Click the columns you want as either a source or target and drag to 'any' of the source (SRC) or target (TGT) column and the column and ALL of its technical metadata come with it.

The screenshot shows the Erwin Mapping Specification interface with a detailed table of mapping specifications. The table has columns: #, Target System Name, Target Environment Name, Target Table Name, Target Column Name, Target Column Data Type, Target Column Length, and Target Column Precision. An orange arrow points to the 'Region' column in the 'dbo.Customers' table. The 'Metadata Catalogue' on the right shows 'dbo.Customers' selected. The 'Metadata Properties' section shows 'Table Name' as 'dbo.Customers', 'Environment Name' as 'EDW-PRD', 'System Name' as 'EDW', and 'Rows' as 0.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision
1	EDW	EDW-PRD	dbo.Customers	Region	nvarchar	15	0
2	EDW	EDW-PRD	dbo.Customers	PostalCode	nvarchar		
3	EDW	EDW-PRD	dbo.Customers	Phone	nvarchar	24	0
4	EDW	EDW-PRD	dbo.Customers	Fax	nvarchar	24	0
5	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0
6	EDW	EDW-PRD	dbo.Customers	Country	nvarchar	15	0












5. Once the Source and Target columns have been dragged and dropped, enter the required transformations (business rules), extended business rules, lookup conditions etc.,
6. If a particular row of a mapping specification has been reviewed and is considered complete, Mark the **"Status"** checkbox with a check and click save (as shown in the image below).
7. Repeat as necessary to finish the mapping specification.
8. Click the save icon to save your work

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale
1	EDW	EDW-PRD	dbo.Customers	Region	nvarchar	15	0	0
2	EDW	EDW-PRD	dbo.Customers	PostalCode	nvarchar	10	0	0
3	EDW	EDW-PRD	dbo.Customers	Phone	nvarchar	24	0	0
4	EDW	EDW-PRD	dbo.Customers	Fax	nvarchar	24	0	0
5	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0	0
6	EDW	EDW-PRD	dbo.Customers	Country	nvarchar	15	0	0

- This is a way of tracking the status of every row in a mapping specification to ensure the 'entire' specification has been reviewed and is considered complete.
- You do not have to click save after every row. You can select save when you are ready to save multiple rows or complete the mapping specification
- You can visibly tracking Changes within the data Grid prior to saving the mapping specification. New metadata driven changes (drag & drop from the metadata browser) are identified with Blue exclamation marks (!) to indicate new rows; Red exclamations marks (!) indicated manually overwritten or modified changes to existing rows.

### Mapping Specification Grid Icon

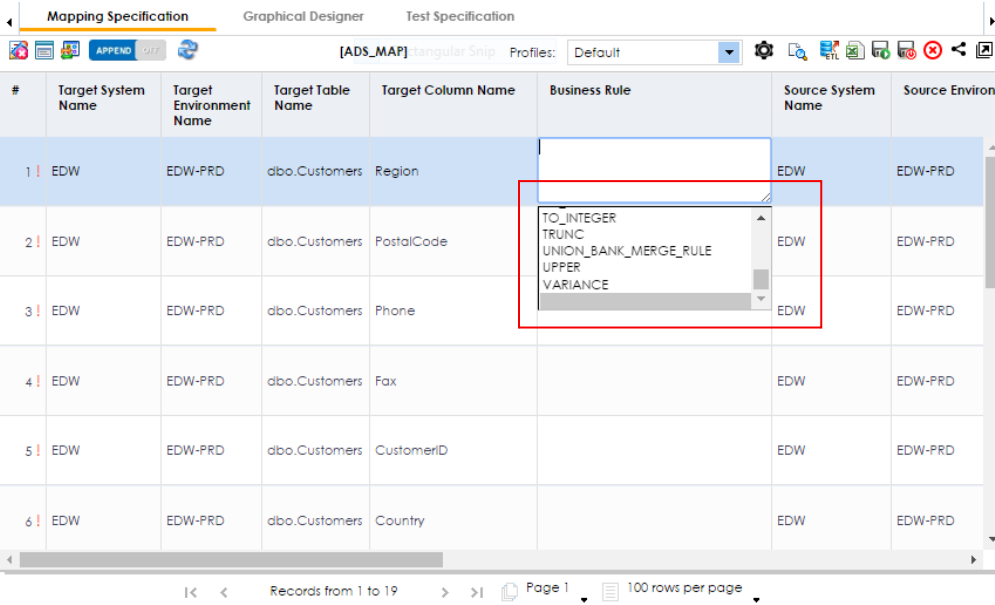
Icon Set	Icon Tool Tip	Icon Functionality
	Edit Specifications	The mapping is put into the Edit mode and gets locked for a user
	Cancel Edit Specifications	The mapping is out of the Edit mode and is unlocked
	Clear All Formatting	Customizations done to the map spec grid rows (e.g. styles, fonts, backgrounds etc.,) are removed
	Reset Column Ordering	User Customized order of columns in the map spec grid will be removed and configured to default EMM column order.
	Reset Column Visibility	User Customized visibility of columns in the map spec grid will be removed and configured to default EMM column visibility.

	Append Mode OFF	Click the icon to enable append mode to append/concat multiple source/target columns (e.g. multisource to single target)
	Append Mode ON	Click the icon to disable append mode.
	Alternate Transformation View Options	Enable an extended pop-up view for Business Rule, Extended Business Rule & Trans Lookup Condition.
	Export to Microsoft Excel	Export contents of Mapping Spec in Excel file format.
	Apply Changes	Save changes to the Map Spec grid and continue in the Edit Mode
	Save	Save changes to the Map Spec grid and exit out of Edit Mode
	Delete	Delete Mapping Spec grid rows
	Maximize Grid	Maximize the Mapping Spec grid
	Share Link	Click on icon to share the URL to any user through email or copy the URL specific to the mapping.
	Mapping Statistics	Click on the icon to view the Mapping Statistics like Total rows with Target Tables, Source Tables etc., with hyperlinks.
	Refresh icon	Click on the icon to refresh the Mapping specification grid.

### Using Transformations (Business Rules):

Double Click the 'Business Rule' column and the list of enterprise transformations are available. Select the one that is appropriate for the movement of that data item by double clicking on the Business Rule and then clicking the icon. Enter any additional transformation rules


- Extended business rules
- Transformation Lookup Rule




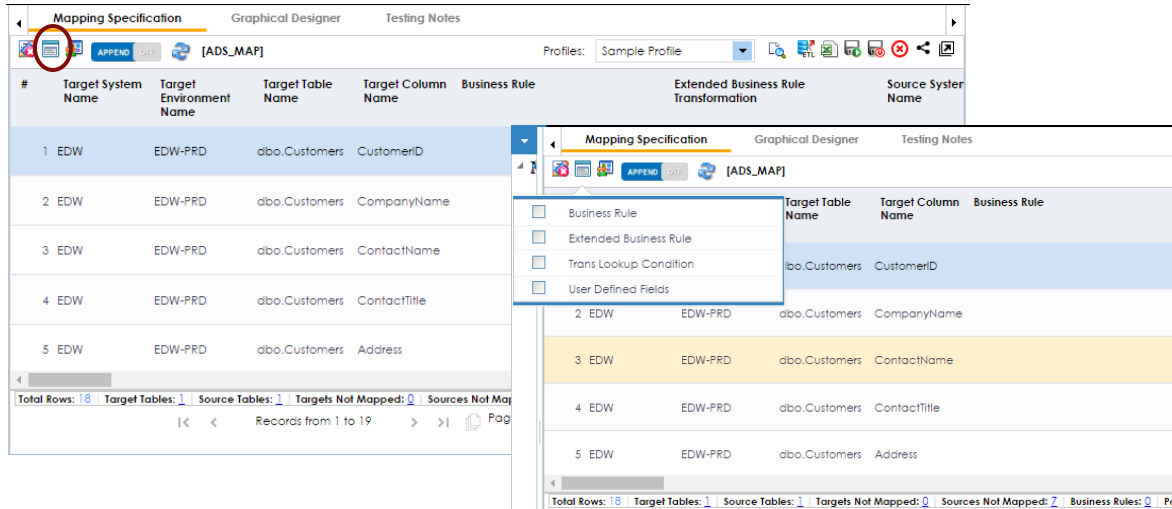
The screenshot displays the Mapping Specification grid in the erwin tool. The grid has columns for #, Target System Name, Target Environment Name, Target Table Name, Target Column Name, Business Rule, Source System Name, and Source Environment Name. A red box highlights the Business Rule column for the first row, which is currently empty. A dropdown menu is open, showing a list of transformations: TO\_INTEGER, TRUNC, UNION\_BANK\_MERGE\_RULE, UPPER, and VARIANCE. The grid also shows data for other rows, including Target System Name (EDW), Target Environment Name (EDW-PRD), Target Table Name (dbo.Customers), and Target Column Name (Region, PostalCode, Phone, Fax, CustomerID, Country). The Source System Name and Source Environment Name are also listed as EDW and EDW-PRD respectively.

## Customization of Transformation (Business Rule) display:

By default, on double clicking the Business Rule cell, a drop-down containing various rules is displayed.

To enable an alternate view of the Business Rule, click the “Alternate Transformation View Options” icon  and select the “Alternate Business Rule Display” option. This will enable an enhanced pop-up window, Press “Ctrl+Space” to view the Business Rules. This enables you to view large business rules with ease and allows to enter any additional transformation rules.

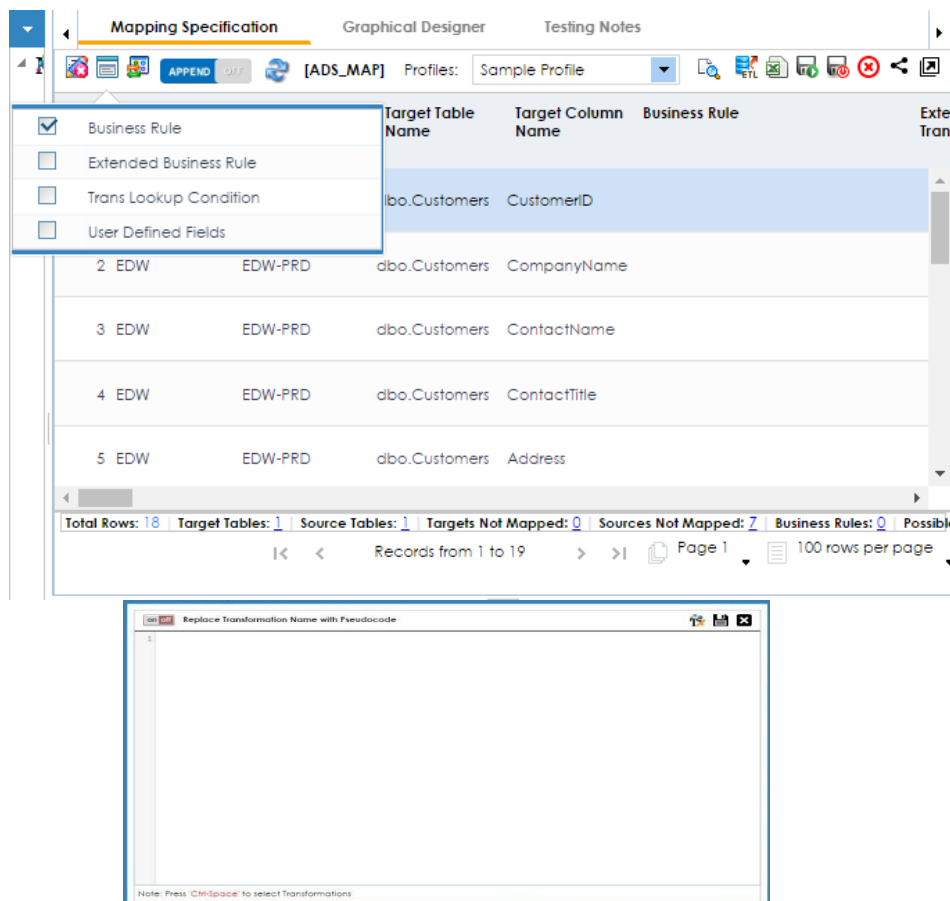
To revert to the view, unselect the “Business Rule” option by clicking the icon. 



#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Business Rule	Extended Business Rule Transformation	Source System Name
1	EDW	EDW-PRD	dbo.Customers	CustomerId			
2	EDW	EDW-PRD	dbo.Customers	CompanyName			
3	EDW	EDW-PRD	dbo.Customers	ContactName			
4	EDW	EDW-PRD	dbo.Customers	ContactTitle			
5	EDW	EDW-PRD	dbo.Customers	Address			

Total Rows: 18 | Target Tables: 1 | Source Tables: 1 | Targets Not Mapped: 0 | Sources Not Mapped: 7

Enable “Business Rule” and double click the Business Rule cell.



Target Table Name	Target Column Name	Business Rule Name	Extended Business Rule Transformation
dbo.Customers	CustomerId		
2 EDW	EDW-PRD	dbo.Customers	CompanyName
3 EDW	EDW-PRD	dbo.Customers	ContactName
4 EDW	EDW-PRD	dbo.Customers	ContactTitle
5 EDW	EDW-PRD	dbo.Customers	Address

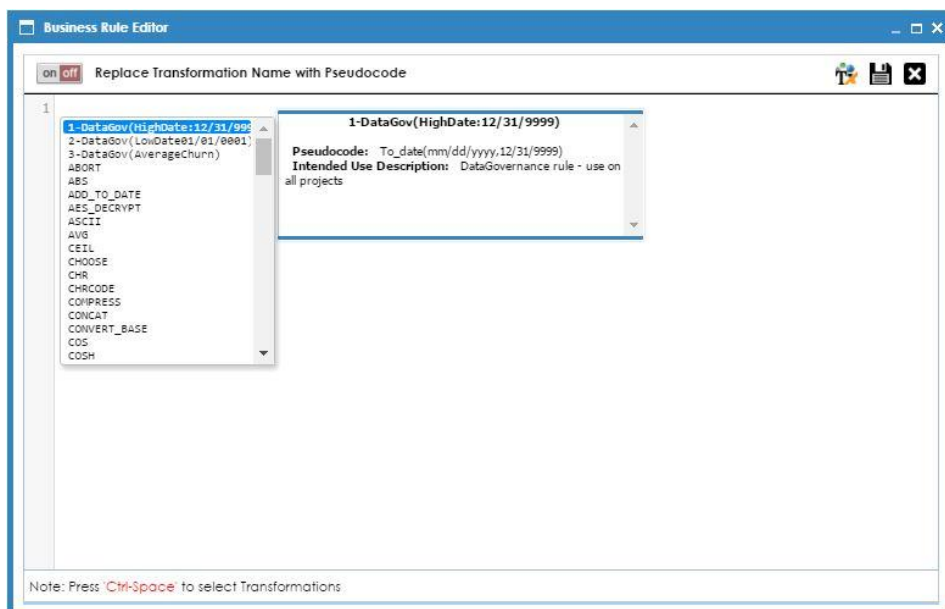
Total Rows: 18 | Target Tables: 1 | Source Tables: 1 | Targets Not Mapped: 0 | Sources Not Mapped: 7 | Business Rules: 0 | Possible


Records from 1 to 19 | Page 1 | 100 rows per page

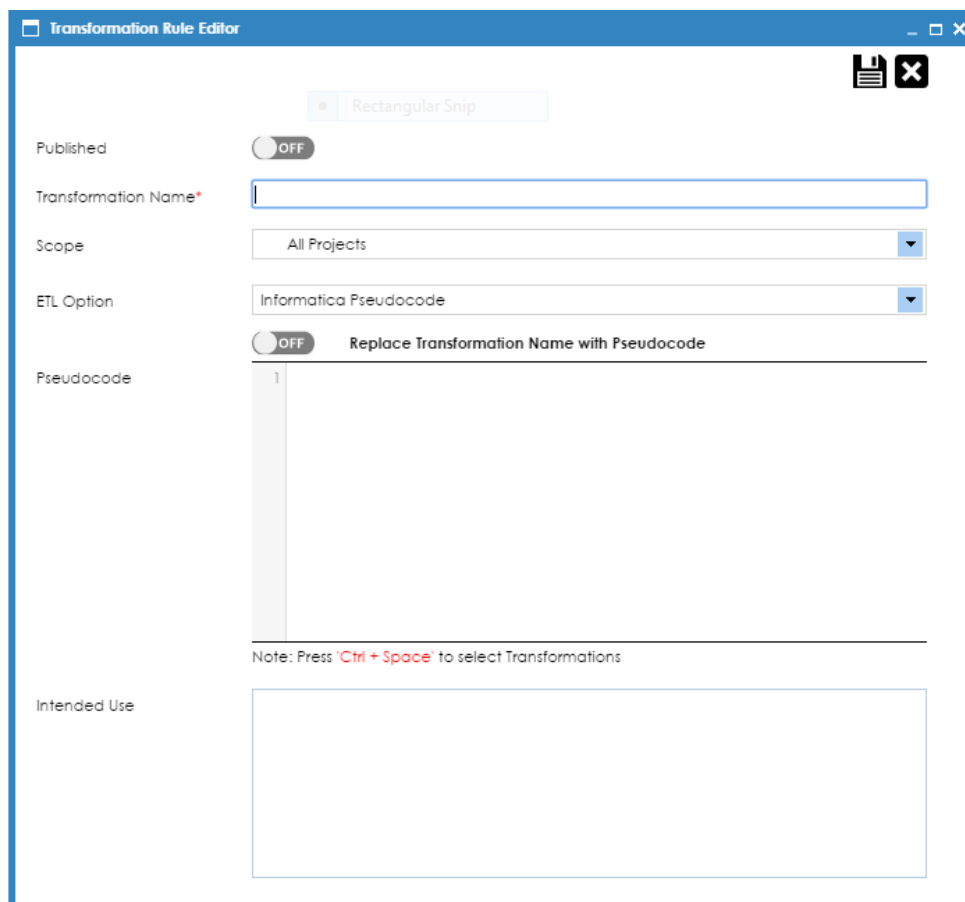
Replace Transformation Name with Pseudocode

Note: Press 'Ctrl+Space' to select Transformations

Press “Ctrl+Space” to get the list of Transformations, Click on save icon to save the transformation in the mapping grid.



Click on save as transformation icon  takes you to Transformation Rule editor window where you can reuse the transformation for specific project or by all other projects which can be defined from the scope dropdown with list of projects, Click save to continue to save the transformation to the grid.



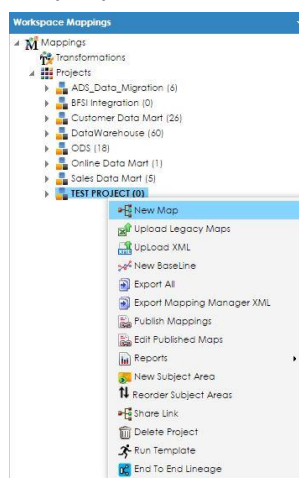
**NOTE:** Rich Text Support for Business Rule, Extended Business Rule and User Defined fields in the Mapping grid. This allows you to format text as HTML and enable hyperlinks, bold text, line breaks etc.

### 4.3.3 Graphical Creation of Source to Target Mappings.

Create Mappings using a **Graphical view** interface (vs the Grid view) using drag/drop from the metadata repository.

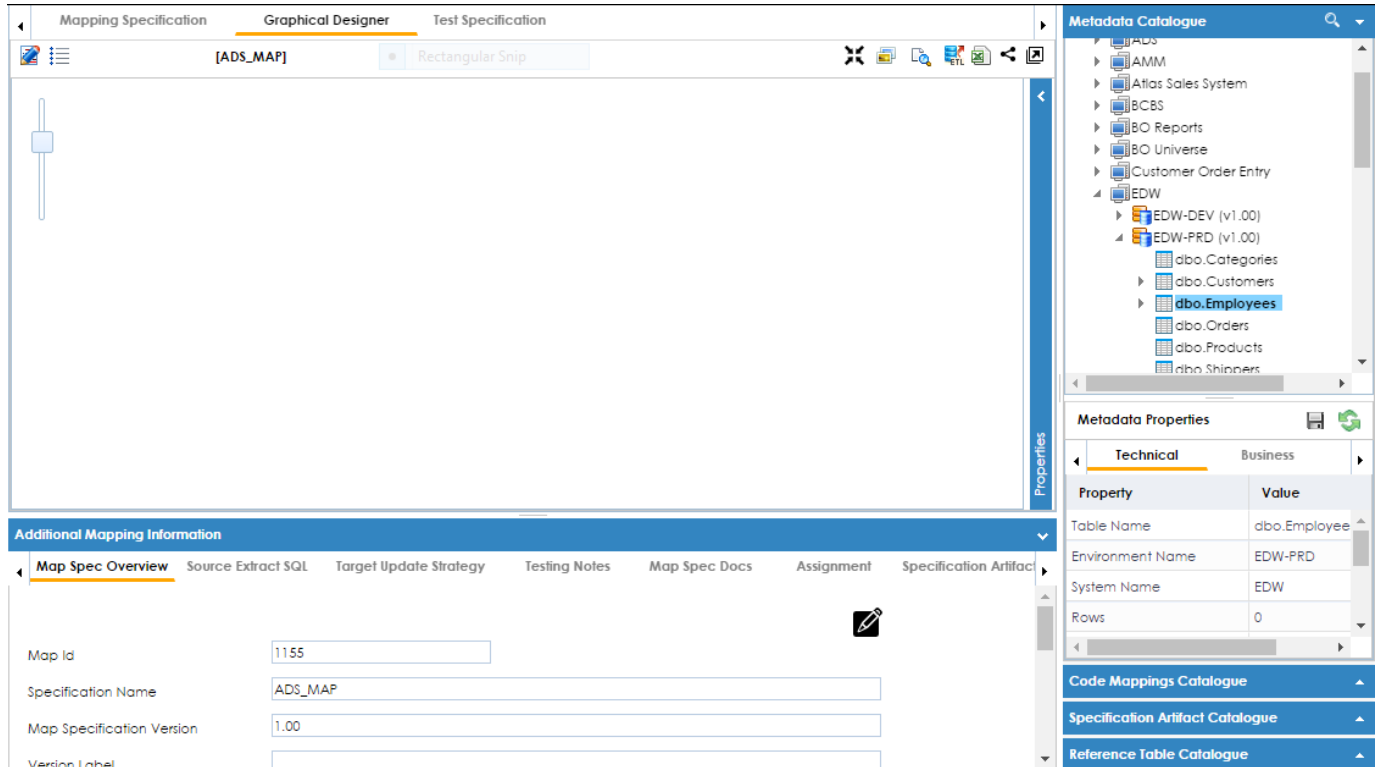
Create Mapping Specifications using **Drag & Drop technique** as follows:

1. Right click on the project node and select the “New Map” option to create a new Mapping Specification. Menu displays as shown.

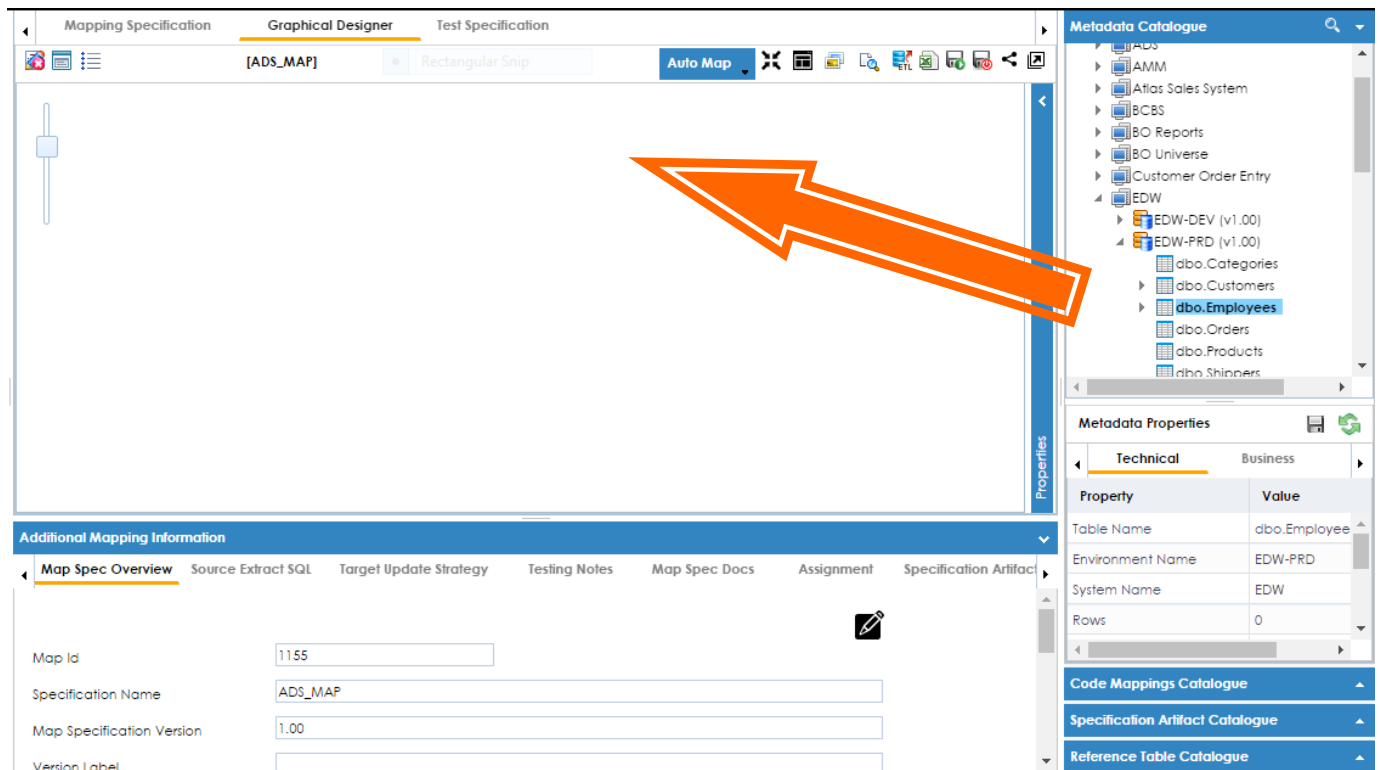


2. Select New Map, Enter the Mapping Specification details. Click “Finish” icon to proceed with new map creation manually.

Click on “Graphical Designer” tab



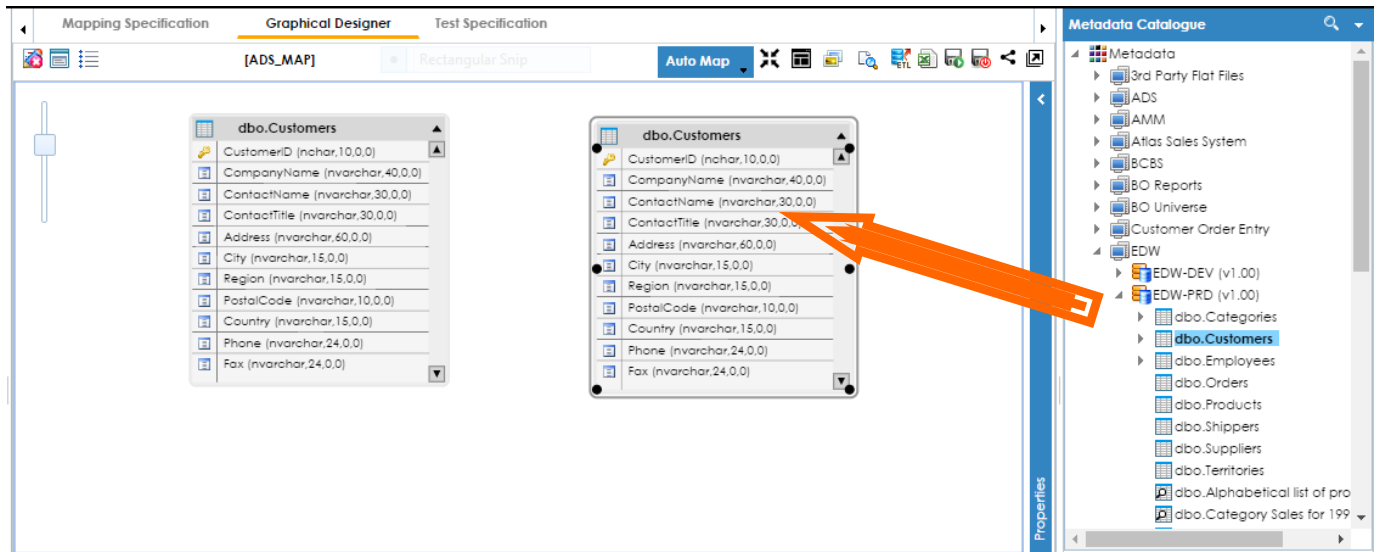
Click on “Edit” icon



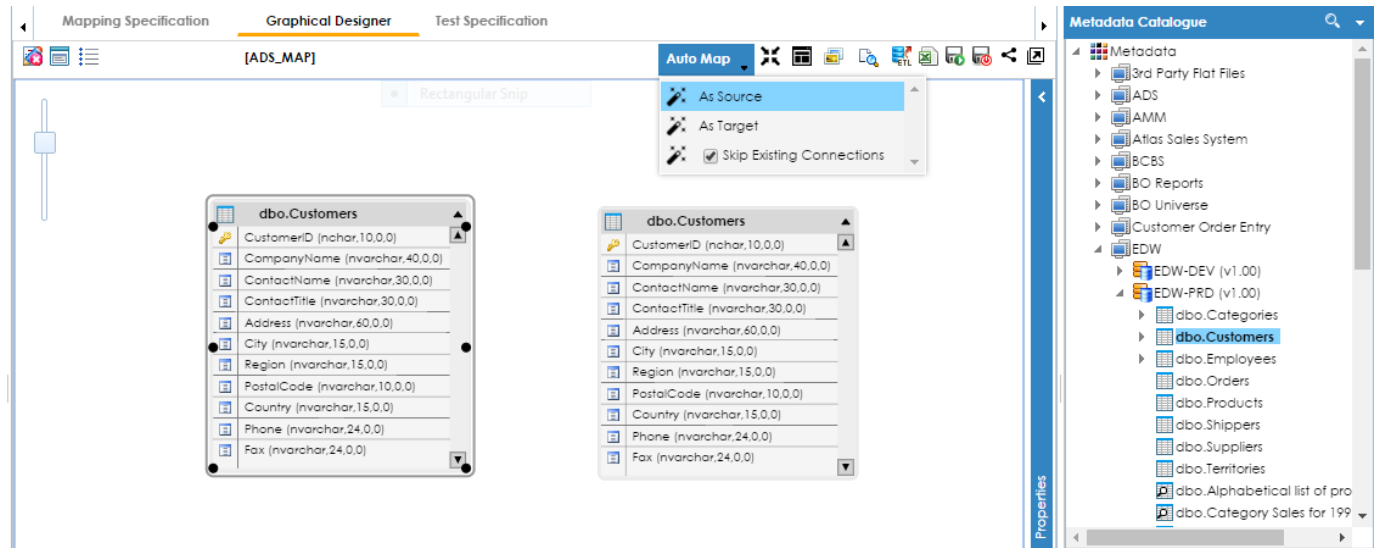
- From the Metadata Browser expand all nodes to see tables and columns from the systems in which you want to build your mapping specification from.



- Click the columns you want as either a source or target and drag to 'any' of the source (SRC) or target (TGT) column and the column and ALL of its technical metadata come with it.



- Select "Auto Map" option to auto map the source and target columns, click on Auto Map icon, it allows to auto map the mapping "As Source" or "As Target" based on the selection. Click on save icon



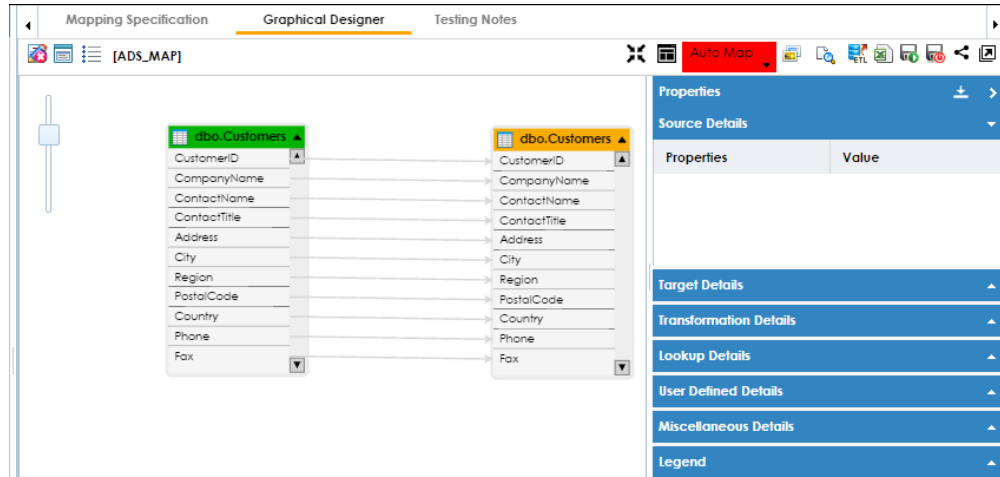
When you click on save and continue icon it pops up a window to create Auto Map, select the radio button “**As source**” or “**As target**” or “**None**” option and click on the save and continue icon to save the map successfully.

System Name	Environment Name	Table Name	Column Name	As Source	As Target	None
				<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

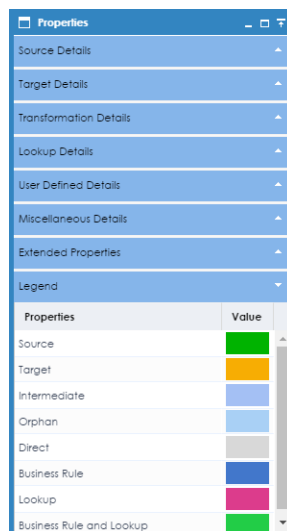
6. Once the Source and Target columns have been dragged and dropped, enter the required transformations (business rules), extended business rules, lookup conditions etc.,

To add Business rule, right click on the SRC to TGT node as below

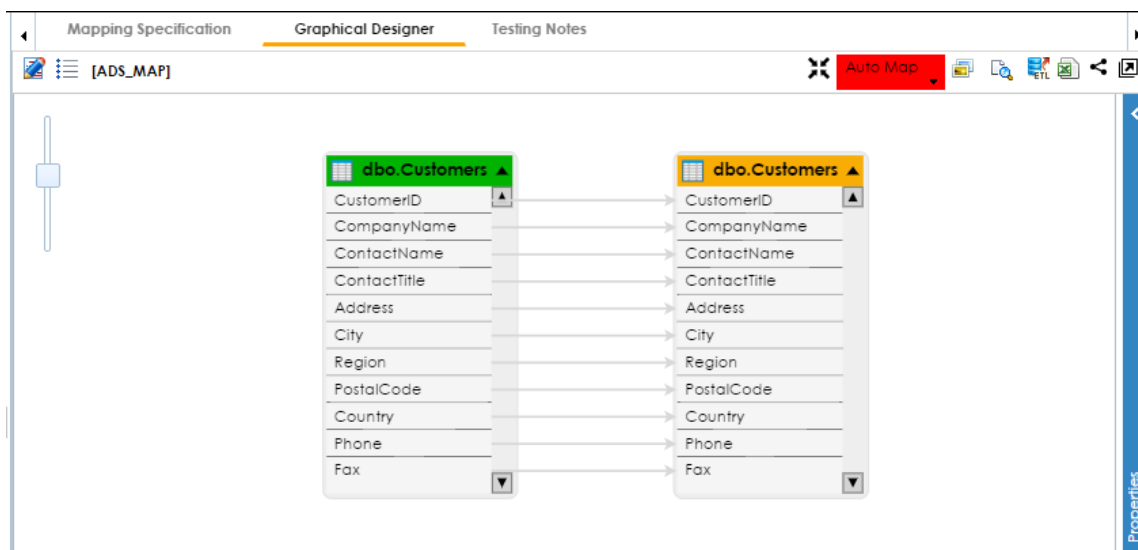
- Click on the slide deck as shown in the above screenshot to view the properties in Mapping Grid.



User can dock and undock the properties window and view the properties with Source, Target, Transformation, Lookup, User Defined, Miscellaneous and Legend details in a window.



- Click the save & exit icon to save your work and exit from the mapping grid.



## Enabling Change Log to capture Change Description for Mapping Specification updates.

The Change Log feature enables capture of Change Description for every single edit of a mapping specification.

1. The Change Log settings are turned OFF by default.
2. To Enable these settings, click the settings icon, go into "Mapping Manager" >> "Change Log" tab and enable the following options.
  - a. Enable Change Log Capture for Mapping Specifications
  - b. Enable Change Log tab display on Mapping Specification tabs
  - c. Enable export of Change Log to Excel (at the Project, Subject and Mapping Levels)
3. To enable change log capture for Mapping Specification tab, select checkbox against each tab.

The screenshot shows the 'Change Log' settings window. It is divided into two panels: 'Default Settings' and 'Customized Settings'.


**Default Settings:**

- ☐ Enable Change Log capture for Mapping Specifications
- ☐ Enable Change Log tab display on Mapping Specification tabs
- ☐ Enable export of Change Log to Excel (at the Project Subject and Mapping levels)
- ☐ Enable Change Log capture for Mapping Specification tabs
  - ☐ Map Spec Overview tab
  - ☐ Source Extract SQL tab
  - ☐ Target Update Strategy tab
  - ☐ Testing Notes tab
  - ☐ Map Spec Docs tab
  - ☐ Assignments tab
  - ☐ Level of Effort tab
  - ☐ User Defined1 tab
  - ☐ User Defined2 tab
  - ☐ User Defined3 tab
  - ☐ User Defined4 tab
  - ☐ User Defined5 tab

**Customized Settings:**

- ☒ Enable Change Log capture for Mapping Specifications
- ☐ Enable Change Log tab display on Mapping Specification tabs
- ☒ Enable export of Change Log to Excel (at the Project Subject and Mapping levels)
- ☐ Enable Change Log capture for Mapping Specification tabs
  - ☒ Map Spec Overview tab
  - ☒ Source Extract SQL tab
  - ☐ Target Update Strategy tab
  - ☒ Testing Notes tab
  - ☐ Map Spec Docs tab
  - ☒ Assignments tab
  - ☐ Level of Effort tab
  - ☐ User Defined1 tab
  - ☐ User Defined2 tab
  - ☐ User Defined3 tab
  - ☐ User Defined4 tab
  - ☐ User Defined5 tab

This option will enable the capture of Change Log comments for every edit of a Mapping Specification.

When a mapping specification is being edited and the user clicks the  icon to save the changes, a Change Log dialog box is displayed to the user. The user is prompted to enter the Change Description comments in order to save the mapping specification.

This dialog box will display every time a mapping specification is edited and the user tries to save the mapping.

In order to turn OFF this feature, go into the admin settings and turn OFF the option "**Enable Change Log Capture for Mapping Specifications**"

The screenshot shows a dialog box titled 'Change Log Description'. It contains a text area for entering comments and a red text prompt: 'Enter Change Log Comments here and click the SAVE button'.

### Enable Change Log tab display on Mapping Specification tabs:

This option will enable the display of the Change Log tab among the Mapping Specification tabs. All change log comments entered by users are displayed in the change log tab for a particular mapping specification.

In order to turn OFF the display of the change log tab, go into the admin settings and turn OFF the option “**Enable Change Log tab display on Mapping Specification tabs**”

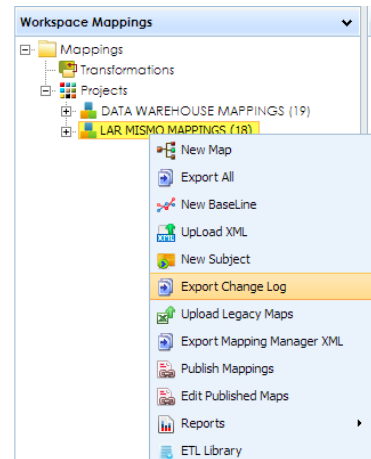
Assignment	Level of Effort	Change Log	User Defined1	User Defined2	User Defined3	User Defined4
Log Id	Changed Log Description	Map Version	Last Modified By	Last Modified Date Time		
2	Update Business Rule	1.00	Administrator	2014-11-07 21:14:13.45		
1	Add new Column in Mapping	1.00	Administrator	2014-11-07 21:13:39.67		

### Enable export of Change Log to Excel (at the Project, Subject and Mapping Levels):

This option will enable the option to export the Change log history into an excel document for an individual mapping, all mappings in a Subject Area or all the mappings in a Project.

Right click on a Mapping/Project/Subject Area and select the “Export Change option. The report will open in an excel file.

In order to turn OFF the display of the change log tab, go into the admin settings OFF the option “**Enable export of Change Log to Excel (at the Project, Mapping Levels)**”



#### 4.3.4 Manual Entry of Mapping Specifications (free form)

Manual entering capabilities are present in the Mapping Manager; however it is recommended that manually entered specifications be used on a case by case and exception basis.

1. Follow steps 1-4 above to create a new mapping spec.
2. Double-Click on the last row to edit the data grid.
3. Enter mapping specification values for source and source, target metadata. (**Note:** Tab to the next cell)
4. Double Click the 'Business Rule' column and the list of enterprise transformations are available.
5. Select the one that is appropriate for the movement of that data item and enter any additional transformation rules
  - i. Extended business rules
  - ii. Transformation Lookup Rule
6. Save the Mapping Specification

Mapping Specification						
#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	CSM Mapping	Business Rule
1	EDW	EDW-PRD	dbo.Customers	CustomerID		
2	EDW	EDW-PRD	dbo.Customers	CustomerID		
3	EDW	EDW-PRD	dbo.Customers			

Double click on each cell and fill in the value

#### 4.3.5 Creating One-to-Many and Many-to-Many Mapping Specifications

The Integrated Data Grid supports the creation of one-to-many and many to many mapping relationships at the row level via the drag and drop metadata browser

Click the Append OFF Icon  enable Append mode, the icon can be toggled ON/OFF.

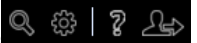

Next select multiple attributes from the metadata browser and drag to any source or target column in the data grid.

Mapping Specification						
#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	CSM Mapping	Business Rule
1	Customer Order Entry	COE-PRD	dbo.DatabaseLog	DatabaseLogID		

DatabaseUser  
Event  
Schema  
Object

Mapping Specification						
#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	CSM Mapping	Business Rule
1	Customer Order Entry	COE-PRD	dbo.DatabaseLog	DatabaseLogID		
2	Customer Order Entry	COE-PRD	dbo.DatabaseLog	DatabaseUser		
	Customer Order Entry	COE-PRD	dbo.DatabaseLog	Event		
	Customer Order Entry	COE-PRD	dbo.DatabaseLog	Schema		
	Customer Order Entry	COE-PRD	dbo.DatabaseLog	Object		

### 4.3.6 List Recent Mappings

Once you are logged into the Mapping Manager application, on the top-right corner you will see , click on  (options icon) and access “My Recent Mappings” to get access to view the recent mappings of the logged in user.

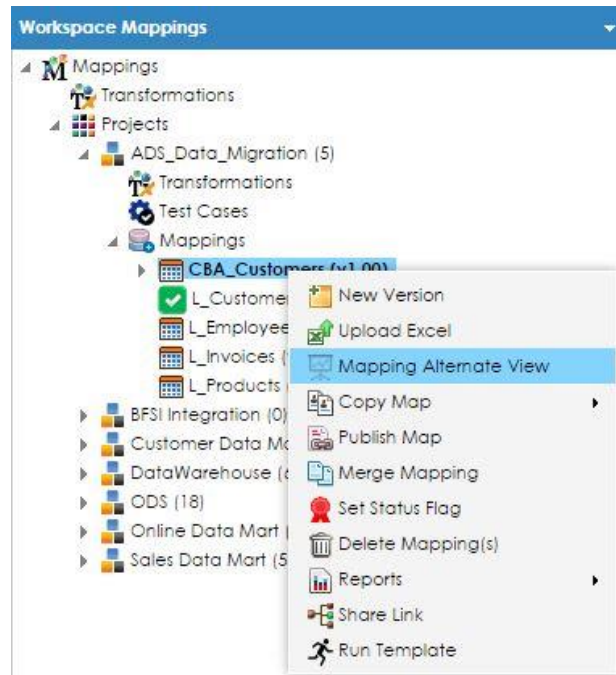


Recent Mappings						
#	Project Name	Subject Name	Mapping Name	Mapping Version	Last Modified By	Last Modified Date
1	ADS_Data_Migration		<a href="#">Test</a>	1.00	Administrator	04/25/2016 21:44:12
2	ADS_Data_Migration		<a href="#">CBA Customers</a>	1.00	Administrator	04/25/2016 19:52:24
3	Sales Data Mart	Sales	<a href="#">ADM EDM</a>	1.00	Administrator	04/23/2016 01:32:59
4	Customer Data Mart		<a href="#">1-Load Customer Accounts</a>	1.00	Administrator	04/22/2016 23:11:59
5	Online Data Mart		<a href="#">L Customers</a>	1.00	Administrator	04/22/2016 23:11:18
6	ODS		<a href="#">2-L Customer Dim</a>	1.00	Administrator	04/22/2016 23:10:29
7	ODS		<a href="#">1-Load Customer Accounts</a>	1.00	Administrator	04/22/2016 23:06:11
8	ODS		<a href="#">L customer dim-bcbs-montana</a>	1.00	Administrator	03/19/2015 12:16:10
9	ODS		<a href="#">L Customer Dim</a>	1.00	Administrator	03/19/2015 12:16:10
10	ODS		<a href="#">L Customer Accounts Hasbro</a>	1.00	Administrator	03/19/2015 12:16:10

### 4.3.7 Business View Mapping

New concise view of the Mapping with the ability to instantly generate table and column lineage and impact analysis. This is an alternate view for both Workspace and Published maps

Right click on specific map under workspace mappings and select “Mapping Alternate view” to run the Business view of the Mapping.



Generates Mapping Summary with Mapping details and Mapping Specifications details

Mapping Summary

Mapping Details

Specification Name	CBA_Customers	Map Id	7
Version	1.00	Version Label	
Mapping Description			
Target Tables	dbo.Customers dbo.Customers dbo.Customers dbo.Customers dbo.Customers dbo.Customers dbo.Customers dbo.Customers dbo.Customers dbo.Customers	Source Tables	dbo.Customers dbo.Customers dbo.Customers dbo.Customers dbo.Customers dbo.Customers dbo.Customers dbo.Customers dbo.Customers dbo.Customers
SQL Query		SQL Query Description	
Target Update Strategy		Map Spec Docs	<a href="#">View</a>
Graphical View	<a href="#">View</a>	Extended Properties	<a href="#">View</a>

Mapping Specification

Target Details						Transformations			
#		System	Environment	Table	Column	Data Type (L/P/S)	Business Rule	Extended Business Rule	System
1		EDW	EDW-PRD	dbo.Customers	CustomerID	nchar(10,0,0)			3rd Party Fic
2		EDW	EDW-PRD	dbo.Customers	CompanyName	nvarchar(40,0,0)			3rd Party Fic
3		EDW	EDW-PRD	dbo.Customers	ContactName	nvarchar(30,0,0)			3rd Party Fic
4		EDW	EDW-PRD	dbo.Customers	ContactTitle	nvarchar(30,0,0)			3rd Party Fic

Records from 1 to 11

Page 1

100 rows per page



User have privilege to instantly generate table and column lineage and impact analysis by double clicking on respective hyperlinks at Source/Target tables details with Graphical view, Map spec docs preview with extended properties under Mapping summary.

Sample snapshot with all details in multiple tabs as seen below.

**Table Details**

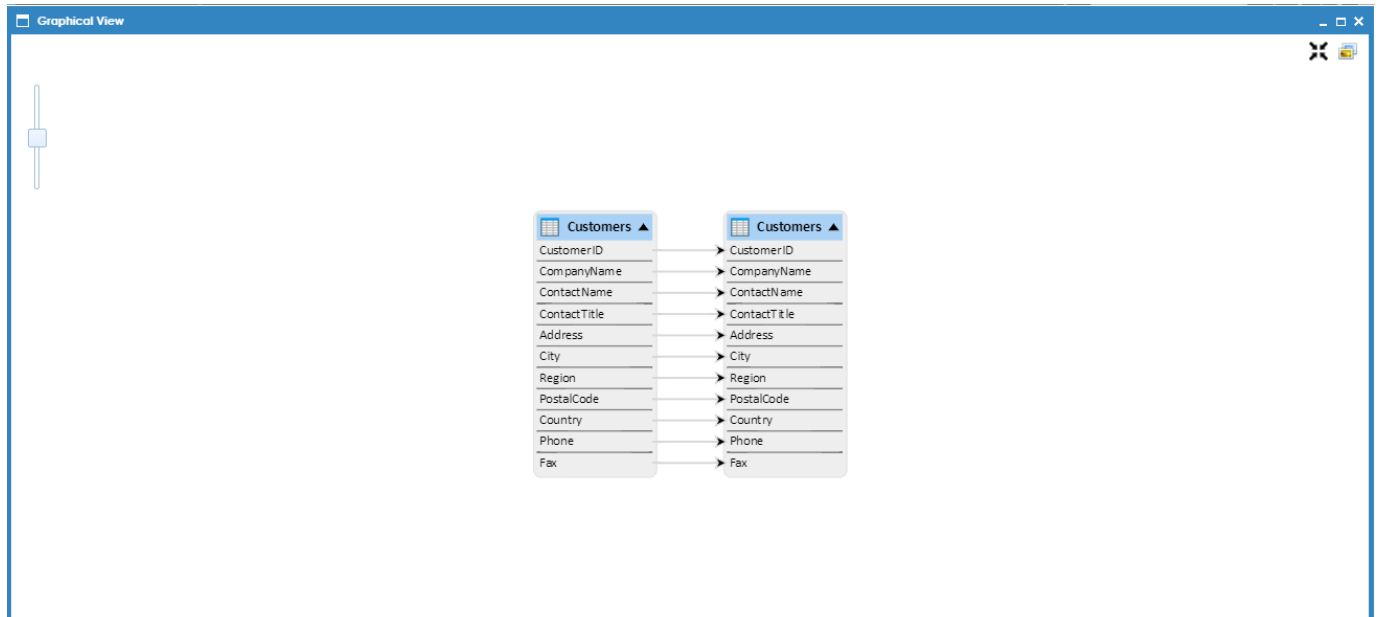
dbo.Customers(EDW-PRD.EDW)

Columns | Table Properties | Impact Analysis | Forward Lineage | Reverse Lineage | Preview Data | Extended Properties | Test Specification

**Column Listing**

S.No	Column Name	Column Alias	Column Class	Logical Column Name	Column Datatype	Column Length	Column D
1	CustomerID				nchar	10	
2	CompanyName				nvarchar	40	
3	ContactName				nvarchar	30	
4	ContactTitle				nvarchar	30	
5	Address				nvarchar	60	
6	City				nvarchar	15	
7	Region				nvarchar	15	
8	PostalCode				nvarchar	10	
9	Country				nvarchar	15	
10	Phone				nvarchar	24	
11	Fax				nvarchar	24	

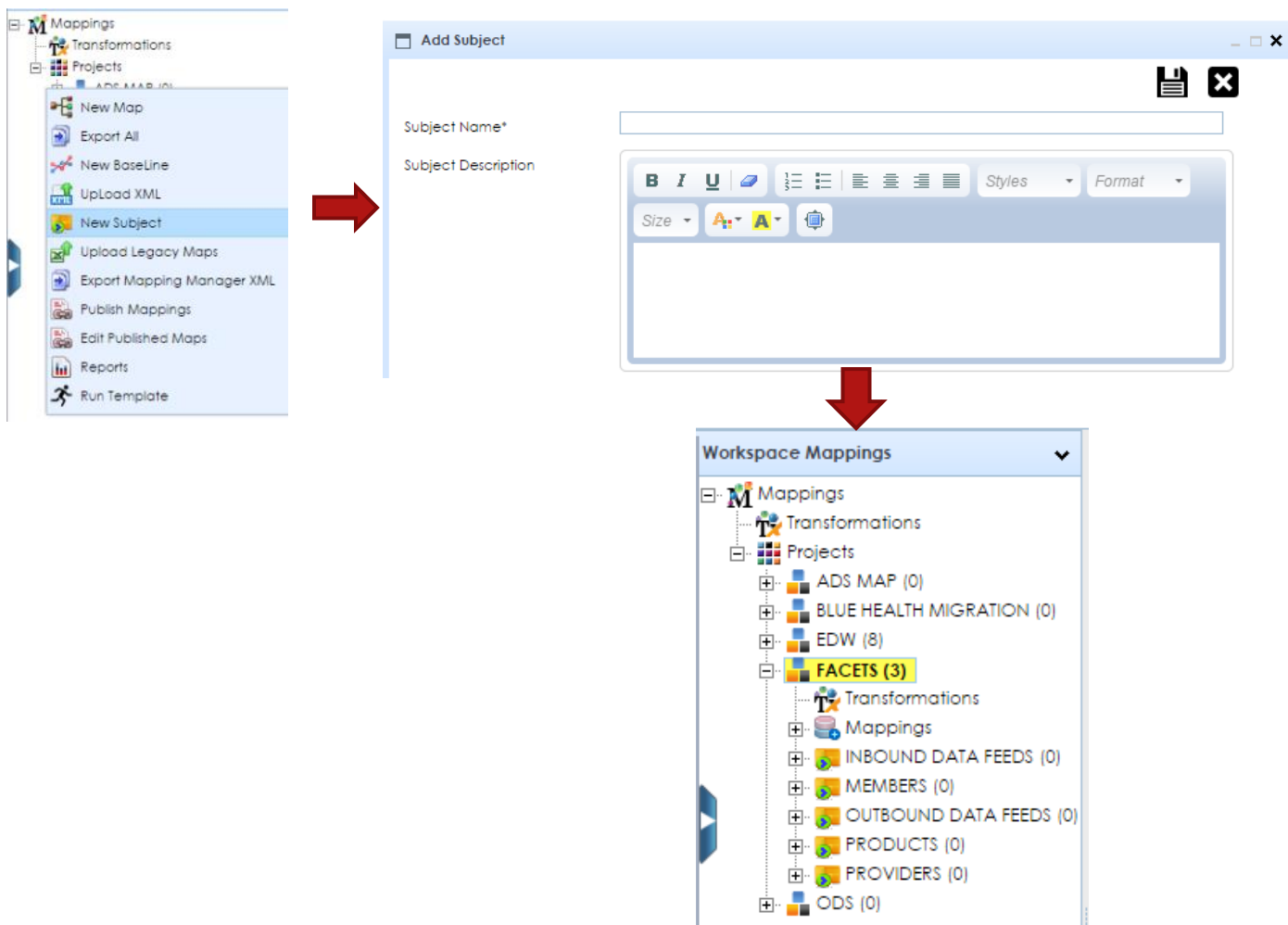
Records from 1 to 11 | Page 1 | 25 rows per page



## 4.4 Create and Manage Subject Areas

### Create Subject Area:

1. Go to the Mapping Manager module and Navigate to the Project where you want to create the Subject Area.
2. Right click on a project and select the “Create New Subject” option
3. Enter the Subject Name and Description and click the “Save” button
4. The new Subject is created within the selected Project



💡 You can create a Subject within a Project or within another Subject. Please note that the Subject name is unique at the Project root level i.e. the same Subject Name cannot exist more than once inside a Project (including Subject Areas within the project).

## Reorder Subject Areas:

1. Go to the Mapping Manager module and Navigate to the Project
2. Right click on a project and select the "Reorder Subject Areas" option
3. A pop window appears with list of all subject areas within the project.
4. Drag/Drop the rows to reorder.
5. You can reorder subject areas by using the dropdown options provided

- **Order by:** Ascending  
Descending  
Custom Order
- **Sort Subject by:** Subject Name  
Created By  
Created Date  
Modified By  
Modifies Date

**Mapping Search**

Mapping Name:  Business Rule:

Source Table Name:  Target Table Name:

Project Desc: Building a Data Mart for Sales

**Mapping Summary**

#	Project Name	Subject Hierarchy	Map Name	Lock Status	Locked By	Mapping Description
1	Sales Data Mart	Opportunities	Customer1	<input type="checkbox"/>		
2	Sales Data Mart	Opportunities	Lineage Map	<input type="checkbox"/>		
3	Sales Data Mart	Opportunities	Lineage Map1	<input type="checkbox"/>		
4	Sales Data Mart	Opportunities	Lineage Map3	<input type="checkbox"/>		
5	Sales Data Mart	Opportunities	Lineage Mapping	<input type="checkbox"/>		

**Subjects for: Sales Data Mart (5)**

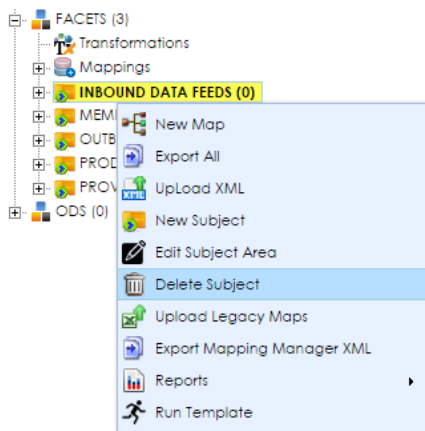
Order By:  Sort Subject By:

#	Subject Name	Current Order	New Order	Parent Hierarchy	Created By	Created Date	Modified By	Modified Date
1	Business(0)	1	1	Sales Data Mart	Administrator	2015-03-18 04:57:58.043	Administrator	2015-03-18 04:57:58.043
2	CRM(0)	2	2	Sales Data Mart	Administrator	2015-03-18 04:57:37.27	Administrator	2015-03-18 04:57:37.27
3	Opportunities(5)	3	3	Sales Data Mart	Administrator	2015-03-18 04:57:45.023	Administrator	2015-03-18 04:57:45.023
4	Sales(0)	4	4	Sales Data Mart	Administrator	2015-03-18 04:57:32.647	Administrator	2015-03-18 04:57:32.647

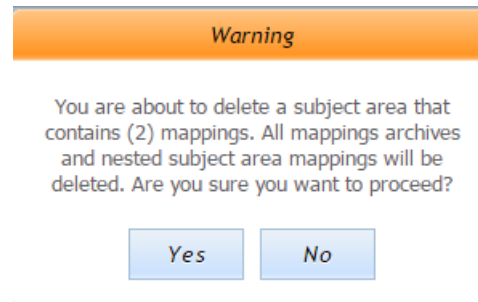
**Note:** Drag/Drop rows to reorder.

## Delete Subject Area:

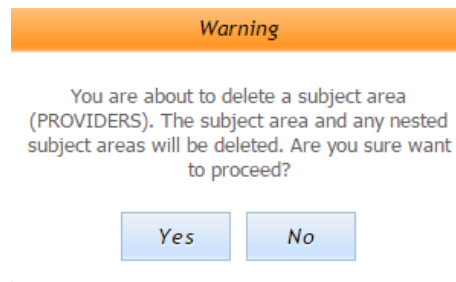
1. Right click on a Subject Area and select the “Delete Subject” option
2. The system displays a confirmation message to the user depending on whether the Subject Area contains any mappings or not
  - *If the Subject Area being deleted contains mappings*
  - *If the Subject Area being deleted does not contain any mappings*
3. Click OK to proceed and delete the Subject Area




If Subject Area contains mappings



If Subject Area does not contains mappings




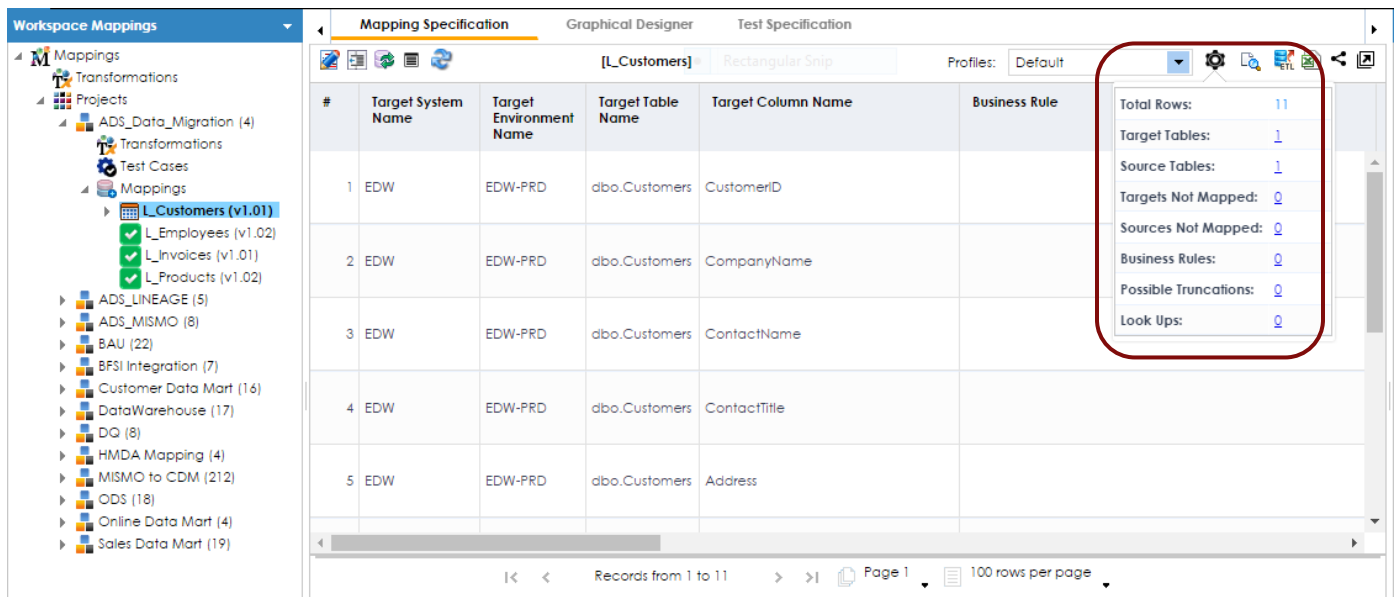
 If a Subject Area contains mappings and the user tries to delete the Subject Area, all mappings present in the Subject Area will also be permanently deleted.

## 4.5 Formatting the Mapping Specification Grid

### 4.5.1 Mapping Statistics

#### - Mapping Specification Grid

1. Go to the Mapping Manager module and Navigate to the Project
2. On a specific project click a Map.
3. Once Map is selected, on right side windows it shows the map with predefined rows and columns in Mapping Specification grid.
4. Click on the Mapping statistics  to view the full statistics as shown in the below screenshot.
5. Mapping Statics gives you the following information with Hyperlinks.
  - ✓ Total Rows
  - ✓ Target Tables
  - ✓ Source Tables
  - ✓ Targets Not Mapped
  - ✓ Sources Not Mapped
  - ✓ Business Rules
  - ✓ Possible Truncations
  - ✓ Look Ups



The screenshot displays the Erwin Mapping Specification Grid. On the left, a tree view shows the project structure under 'Workspace Mappings', with 'L\_Customers (v1.01)' selected. The main area shows a table with 5 rows of mappings. On the right, a statistics sidebar is open, showing various metrics with hyperlinks.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Business Rule
1	EDW	EDW-PRD	dbo.Customers	CustomerID	
2	EDW	EDW-PRD	dbo.Customers	CompanyName	
3	EDW	EDW-PRD	dbo.Customers	ContactName	
4	EDW	EDW-PRD	dbo.Customers	ContactTitle	
5	EDW	EDW-PRD	dbo.Customers	Address	

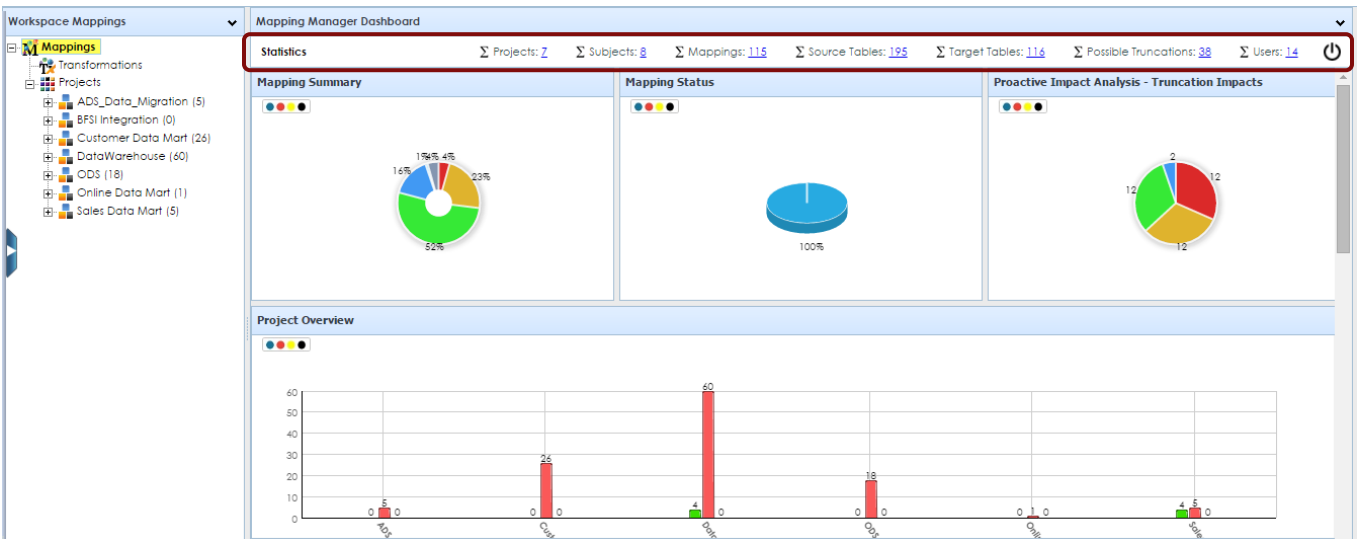
Statistics Sidebar:

- Total Rows: 11
- Target Tables: 1
- Source Tables: 1
- Targets Not Mapped: 0
- Sources Not Mapped: 0
- Business Rules: 0
- Possible Truncations: 0
- Look Ups: 0

Page 1, 100 rows per page

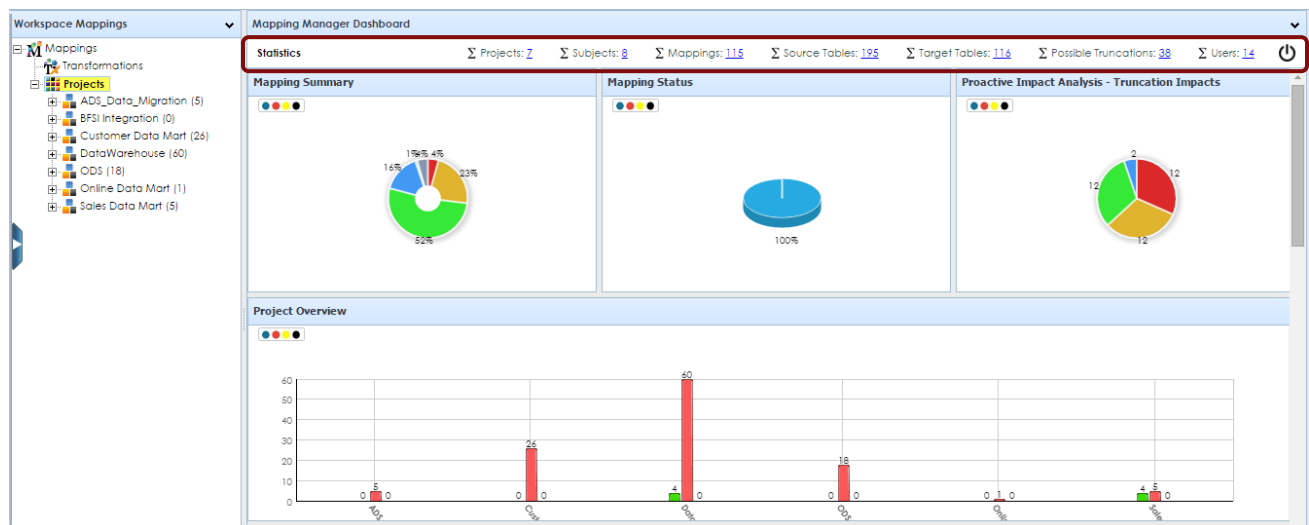
## - At Enterprise level

Project Summary										
#	Project Name	Project Description	Project Owner	Subjects Count	Mapping Count	Created By	Created Date Time	Last Modified By	Last Modified Date Time	
1	DataWarehouse	Enterprise Data Warehouse	Kartik Sridhar	4	60	Administrator	2015-03-10 10:43:38.037	Administrator	2015-03-13 07:35:38.173	
2	ODS	Operational Data Store	Brent Undertaker	0	19	Administrator	2015-03-10 10:44:09.487	Administrator	2015-03-18 05:14:00.457	
3	ADS_Data_Migrat		Lance Armstrong	0	5	Administrator	2015-03-10 10:44:43.77	Administrator	2015-03-18 05:13:23.51	
4	Online Data Mart		Russ Spencer	0	1	Administrator	2015-03-10 10:45:48.457	Administrator	2015-03-18 05:12:58.69	
5	BFSI Integration	Banking and Financial Sector Integration Project to build an EDW for banking domain	Mike Boggs	0	0	Administrator	2015-03-10 10:46:35.707	Administrator	2015-03-18 05:12:34.31	
6	Sales Data Mart	Building a Data Mart for Sales Organization	John Doe	4	6	Administrator	2015-03-18 04:56:44.69	Administrator	2015-03-18 05:11:48.717	
7	Customer Data Mart		Mike Boggs	0	26	Administrator	2015-03-18 04:57:04.617	Administrator	2015-03-18 05:11:15.457	
8	EDW	EDW Staging		0	1	Administrator	2016-04-19 02:08:08.163	Administrator	2016-04-19 02:08:08.163	



Click on hyperlinks provided on the value to drill down to the details in separate window.

## - At Project level

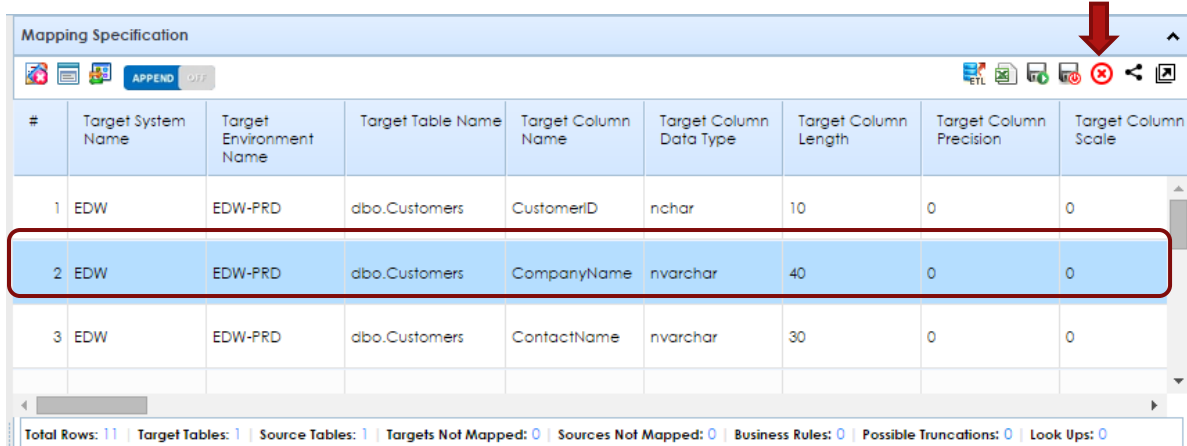


Click on hyperlinks provided on the value to drill down to the details in separate window.

## 4.5.2 Deleting Mapping Rows

The Integrated Data Grid supports the deletion of single or multi-row deletes from mapping specification

1. To delete rows of a mapping specification, select the row and click the delete icon
2. Confirm the deletion by clicking 'OK'



The screenshot shows the 'Mapping Specification' window. A table with 9 columns is displayed. Row 2 is highlighted with a red border. A red arrow points to the delete icon (a red circle with a white 'X') in the top right toolbar.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale
1	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0	0
2	EDW	EDW-PRD	dbo.Customers	CompanyName	nvarchar	40	0	0
3	EDW	EDW-PRD	dbo.Customers	ContactName	nvarchar	30	0	0

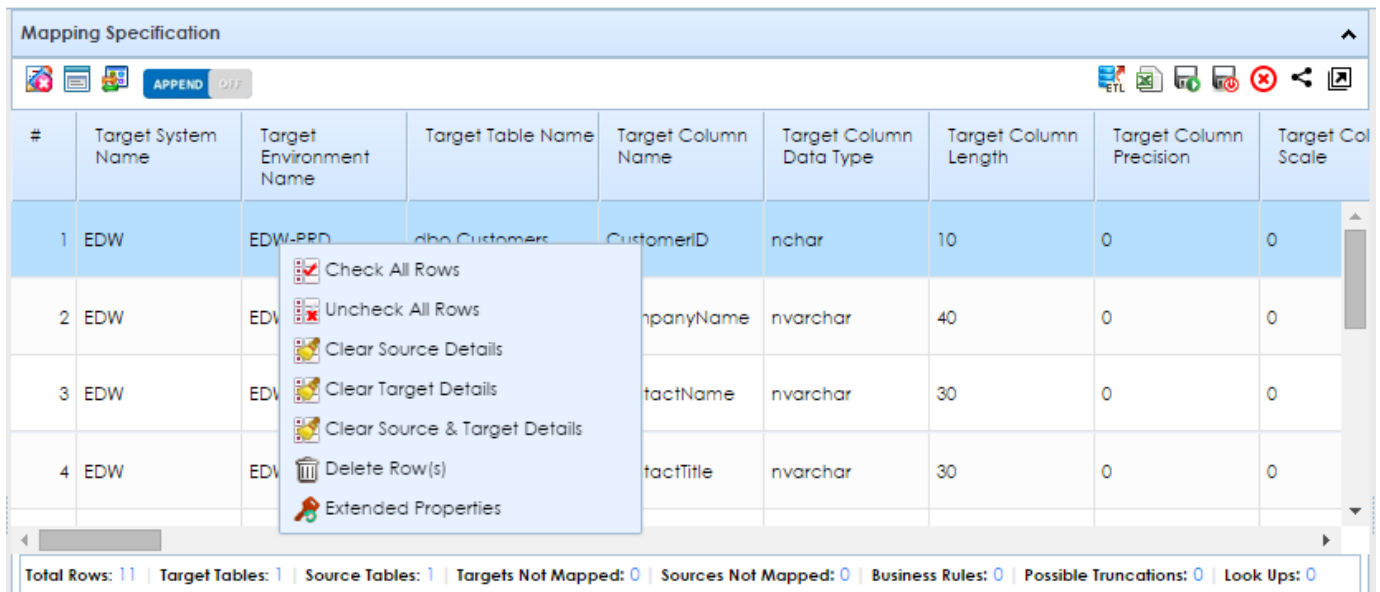
Total Rows: 11 | Target Tables: 1 | Source Tables: 1 | Targets Not Mapped: 0 | Sources Not Mapped: 0 | Business Rules: 0 | Possible Truncations: 0 | Look Ups: 0

**NOTE:** To select multiple rows, press the CTRL Key while you select multiple rows with the mouse

## 4.5.3 Clearing Source/Target details

The Source and Target details can be cleared as follows:

1. Select a Mapping and put the mapping in the edit mode.
2. Select the required rows for which the Source/Target details need to be cleared.



The screenshot shows the 'Mapping Specification' window with a context menu open over row 2. The menu options are: Check All Rows, Uncheck All Rows, Clear Source Details, Clear Target Details, Clear Source & Target Details, Delete Row(s), and Extended Properties.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Col Scale
1	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0	0
2	EDW	EDW-PRD	dbo.Customers	CompanyName	nvarchar	40	0	0
3	EDW	EDW-PRD	dbo.Customers	ContactName	nvarchar	30	0	0
4	EDW	EDW-PRD	dbo.Customers	ContactTitle	nvarchar	30	0	0

Total Rows: 11 | Target Tables: 1 | Source Tables: 1 | Targets Not Mapped: 0 | Sources Not Mapped: 0 | Business Rules: 0 | Possible Truncations: 0 | Look Ups: 0

Select from options "Clear Source Details", "Clear Target Details" or "Clear Source & Target Details" to clear the desired Source/Target rows. The system will provide the user with a confirmation message based on the Clearing option selected. Click OK to proceed with clearing the source/target details

- Selecting the “**Clear Source Details**” option will remove all Source related information for the selected rows.
- Selecting the “**Clear Target Details**” option will remove all Target related information for the selected rows.
- Selecting the “**Clear Source & Target Details**” option will remove all Source & Target related information for the selected rows.

#### 4.5.4 Setting Column Ordering and Display (User Preference)


The Mapping Specification grid can be customized according to the login user’s preference. The user can do the following

1. Select the columns to be displayed in the Mapping Specification Grid
2. Choose the order in which the Columns display in the Mapping Specification Grid


##### Column Ordering:

On the Mapping Specification Grid, select any column header and drag and place in the desired position. Repeat this process for all required columns. The new column order setting will be saved for all mapping specifications for a particular user login

SL.No	Target System Name	Source System Name	Target Environment Name	Target Table Name	Target Column Name	Business Rule	Source Environment Name	Source Table Name	Source Column Name
1	ODS	EDW	Northwind	dbo.Employee	EmployeeID		Excel	DimEmployee	EmployeeKey
2	ODS	EDW	Northwind	dbo.Employee	FirstName	UPPER	Excel	DimEmployee	FirstName
3	ODS	EDW	Northwind	dbo.Employee	LastName	SUBSTR	Excel	DimEmployee	LastName
4	ODS	EDW	Northwind	dbo.Employee	Notes		Excel	DimEmployee	MaritalStatus

**NOTE:** To reset column ordering to default order, click the  icon

##### Column Display:

Click on the icon  to customize display of columns in the mapping specification grid i.e. select only those columns that need to be displayed in the grid and hide the remaining ones. The Mapping Specification grid is customizable for every user.

**Option A:** Right Click on any column header and select the checkboxes for columns that need to be displayed in the grid. Unselect the ones that need to be removed from the display.



Mapping Specification								
#	Target System Name	Target Environment Name	Target Table Name	Target Column	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale
1	EDW	EDW-PRD	dbo.Customer			10	0	0
2	EDW	EDW-PRD	dbo.Customer			40	0	0
3	EDW	EDW-PRD	dbo.Customer			30	0	0
4	EDW	EDW-PRD	dbo.Customers	ContactTitle	nvarchar	30	0	0

Total Rows: 11 | Target Tables: 1 | Source Tables: 1 | Targets Not Mapped: 0 | Sources Not Mapped: 0 | Business Rules: 0 | Possible Truncations: 0 | Look Ups: 0

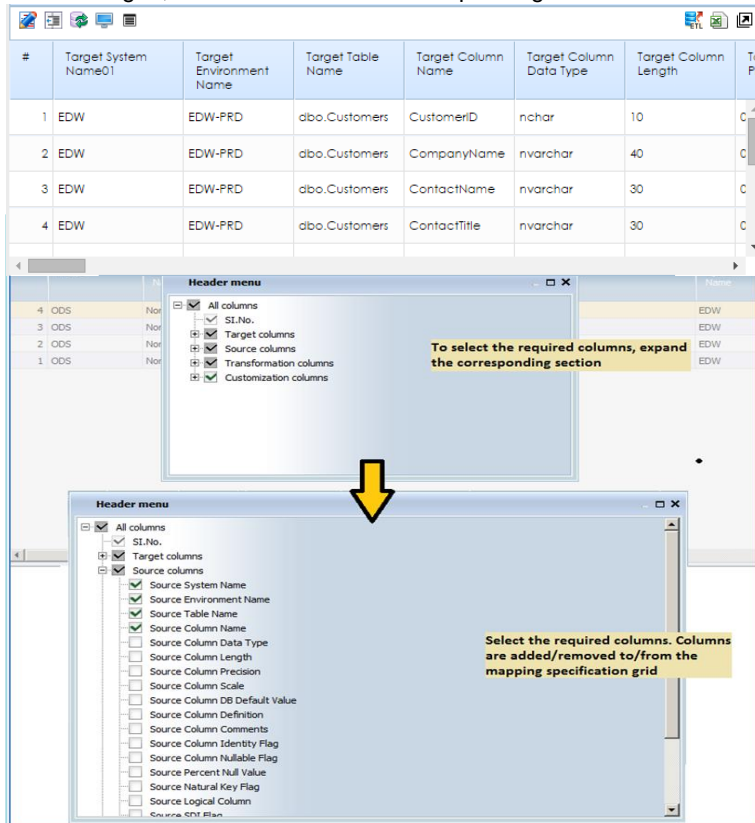
**Option B:** Click on the icon  to customize display of columns in the mapping specification grid.

When the icon is clicked, a dialog box is opened containing all the columns from the Mapping Specification grid grouped into respective categories e.g. Source, Target etc.

By default, all columns are selected and are displayed in the Mapping Specification Grid.

To remove a column from the grid, unselect the checkbox corresponding column. The column is removed from the grid.


To add a column to the grid, select the checkbox corresponding to the column. The column is added to the grid.



The screenshot shows the Mapping Specification dialog box with a list of columns and their corresponding checkboxes. The columns are grouped into categories: All columns, SL.No., Target columns, Source columns, Transformation columns, and Customization columns. A yellow arrow points to the 'Source columns' section, which is expanded. The 'Source columns' section contains a list of columns with checkboxes, including Source System Name, Source Environment Name, Source Table Name, Source Column Name, Source Column Data Type, Source Column Length, Source Column Precision, Source Column Scale, Source Column DB Default Value, Source Column Definition, Source Column Comments, Source Column Identity Flag, Source Column Nullable Flag, Source Percent Null Value, Source Natural Key Flag, Source Logical Column, and Source Key Flag.

To select the required columns, expand the corresponding section

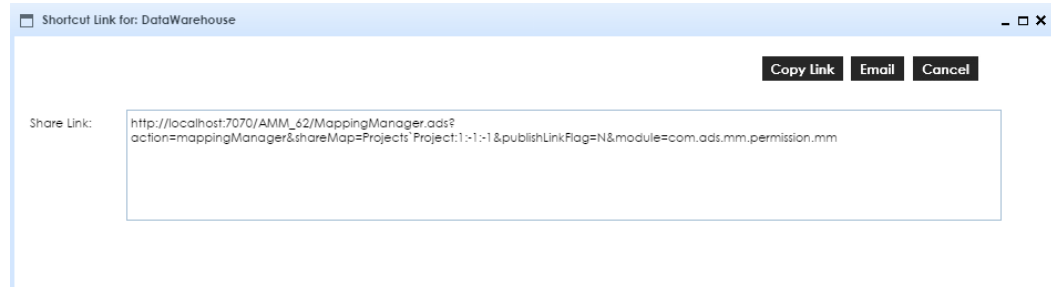
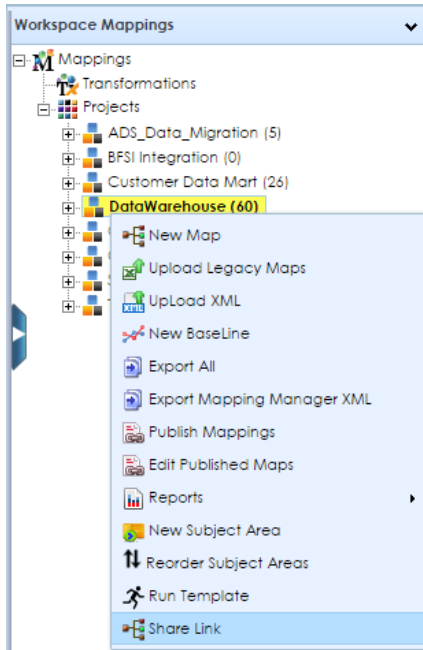
Select the required columns. Columns are added/removed to/from the mapping specification grid

To reset column ordering to default order, click the  icon

#### 4.5.5 Share link

Mapping Manger module allows you to provide share links at Projects, Subject area, Map level and also in the Mapping specifications grid.

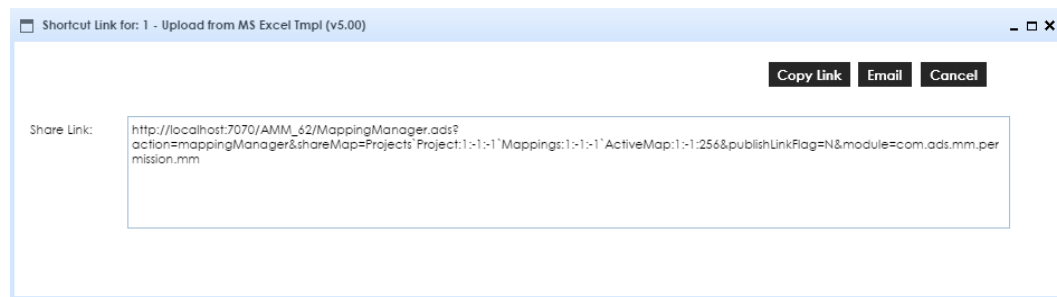
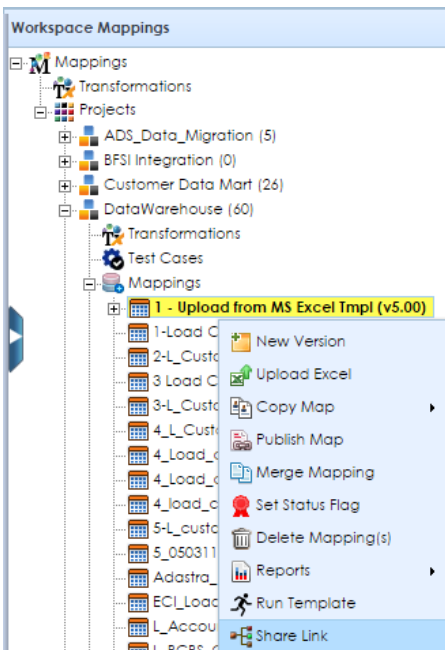
##### -- Share link at Project level



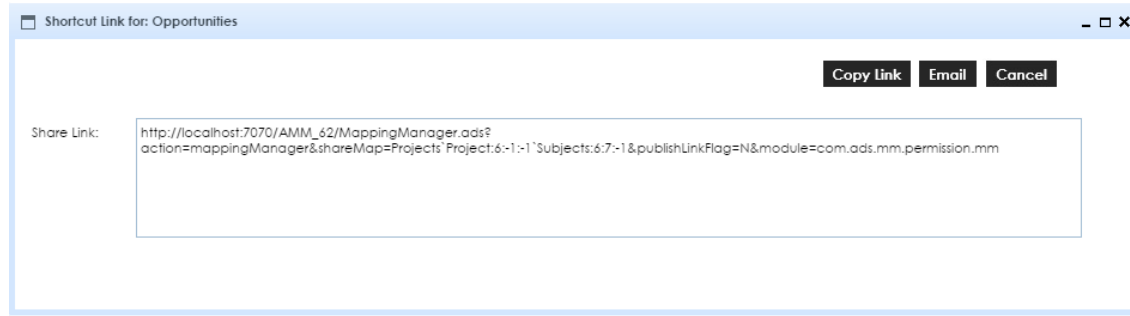
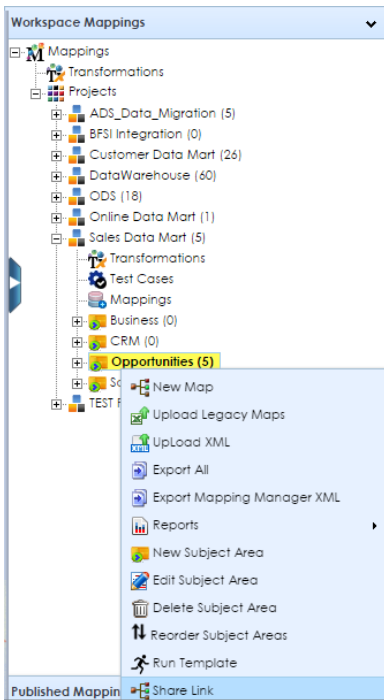
Copy the link to share it with the users or you can share the link through email.

Click the email icon **Email** to share the link via email.


##### -- Share link at Map Level



## -- Share link at Subject area level



## -- Share link at Mapping Specification Grid:

Mapping specification grid allows you can share the specific shortcut link to a mapping to any user using the sharelink icon 

Click on the sharelink icon, it populates a windows with shortcut URL to be shared via copy or email.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale	Target Column Nullable Flag
1	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0	0	<input type="checkbox"/>
2	EDW	EDW-PRD	dbo.Customers	CompanyName	nvarchar	40	0	0	<input type="checkbox"/>
3	EDW	EDW-PRD	dbo.Customers	ContactName	nvarchar	30	0	0	<input checked="" type="checkbox"/>
4	EDW	EDW-PRD	dbo.Customers	ContactTitle	nvarchar	30	0	0	<input checked="" type="checkbox"/>

## -- Share link to a row with in the Mapping Specification Grid:

Mapping specification row allows you can share the specific shortcut link of a mapping to any user using the sharelink option.

Select any specific row with in the Mapping grid, right click and select sharelink to generate the shortcut link of the mapping.

The screenshot shows the Erwin Mapping Specification grid. A right-click context menu is open over the first row, with the 'Share Link' option highlighted. The grid contains the following data:

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale
1	3rd Party Flat Files	SQL Server	abo.Categories	CategoryID	int	4	10	0
2	3rd Party Flat Files	SQL Server	abo.Categories	Cate			0	0
3	3rd Party Flat Files	SQL Server	abo.Categories	Desc			0	0
4	3rd Party Flat Files	SQL Server	abo.Categories	Pictu			0	0

The context menu options include: Font Color, Font Styles, Background Color, Font Size, Clear Formatting, Impact Analysis Report, Lineage Analyzer, Extended Properties, and Share Link.

Copy the link to share it with the users or you can share the link through email.

Click the email icon **Email** to share the link via email.

The screenshot shows a dialog box titled 'Shortcut Link for: ADS\_Mapping (v1.00)'. It contains a text area with the following URL:

```
http://localhost:9090/MappingManager7/MappingManager.ads?
action=mappingManager&shareMap=-1`Projects`Project:3:-1:-1`Mappings:3:-1:-1`ActiveMap:3:-1:360&publishLinkFlag=N&module=com.ads.mm.p
ermission.mm&sequenceId=32241
```

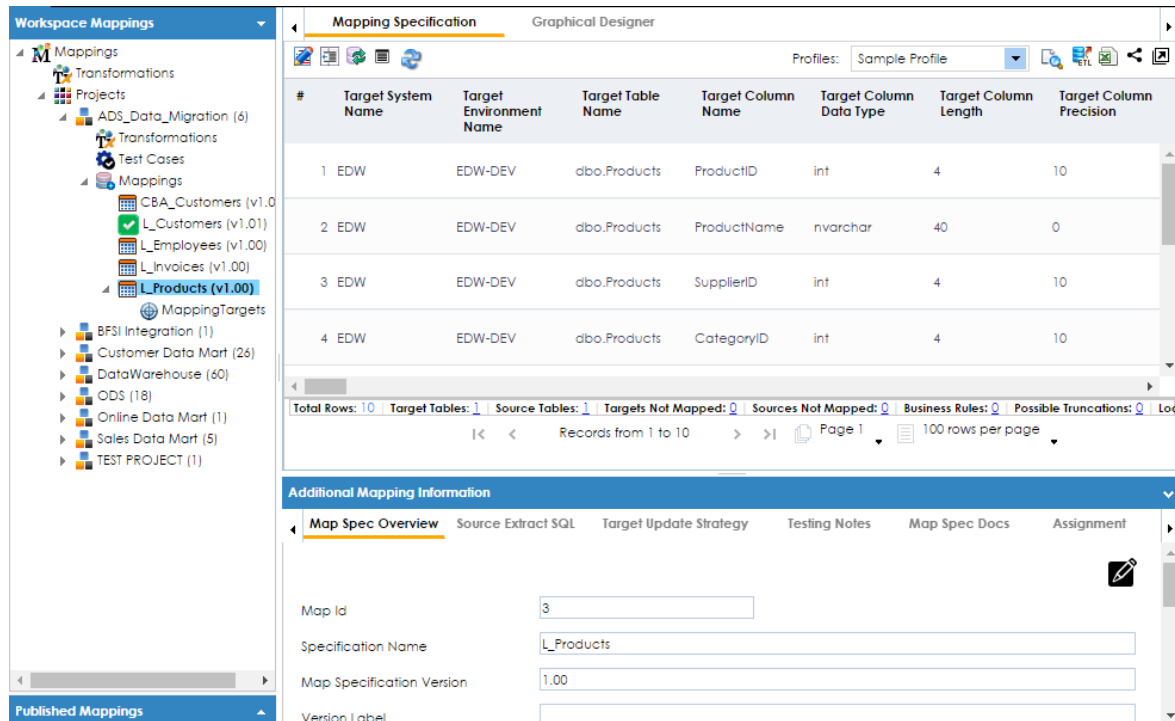
At the top right of the dialog are three buttons: **Copy Link**, **Email**, and **Cancel**.

## 4.5.6 Mapping Preview

### Virtual Target Preview for a Source-To-Target Mapping

Generate a virtual preview of the target based on the source and transformation information.

**NOTE:** Mapping Preview is currently supported for RDBMS only.



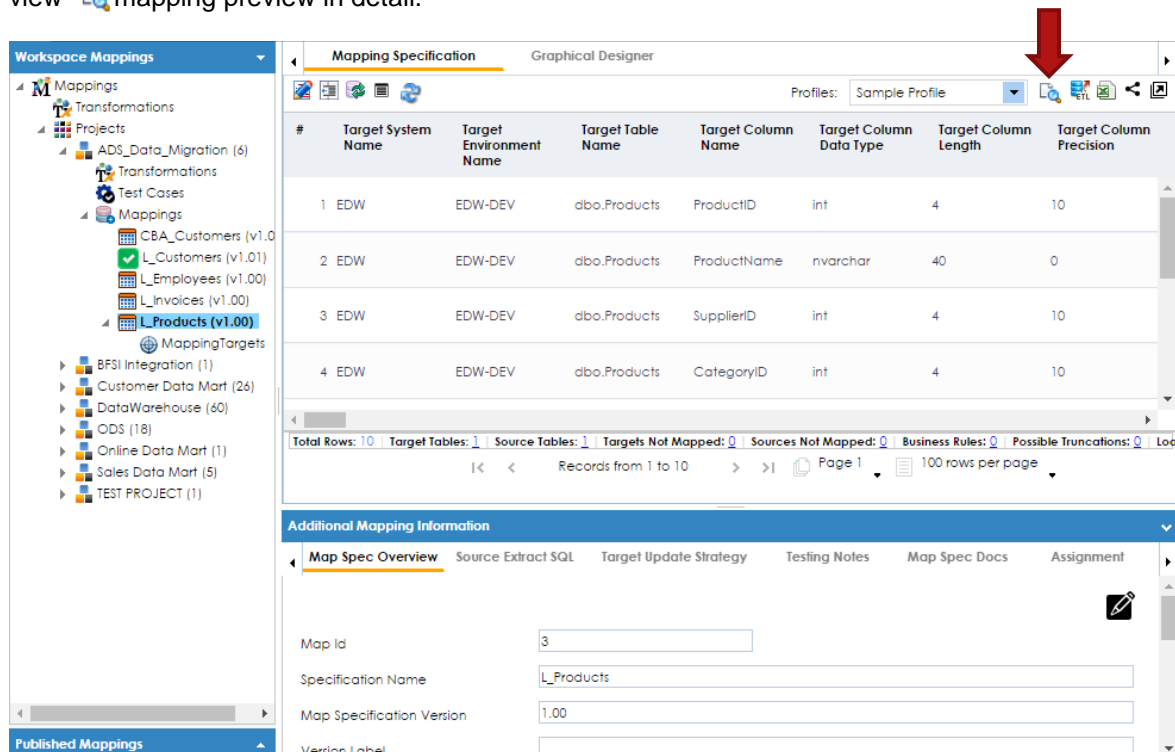
The screenshot shows the Erwin Mapping Specification window. On the left, the 'Workspace Mappings' tree is expanded, showing a hierarchy of mappings. The 'L\_Products (v1.00)' mapping is selected. The main area displays the 'Mapping Specification' for this mapping, showing a table with columns: #, Target System Name, Target Environment Name, Target Table Name, Target Column Name, Target Column Data Type, Target Column Length, and Target Column Precision. The table contains four rows of data. Below the table, there is a summary row: 'Total Rows: 10 | Target Tables: 1 | Source Tables: 1 | Targets Not Mapped: 0 | Sources Not Mapped: 0 | Business Rules: 0 | Possible Truncations: 0 |'. The 'Additional Mapping Information' section is also visible, showing fields for Map Id, Specification Name, Map Specification Version, and Version Label.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision
1	EDW	EDW-DEV	dbo.Products	ProductID	int	4	10
2	EDW	EDW-DEV	dbo.Products	ProductName	nvarchar	40	0
3	EDW	EDW-DEV	dbo.Products	SupplierID	int	4	10
4	EDW	EDW-DEV	dbo.Products	CategoryID	int	4	10

Total Rows: 10 | Target Tables: 1 | Source Tables: 1 | Targets Not Mapped: 0 | Sources Not Mapped: 0 | Business Rules: 0 | Possible Truncations: 0 |

Map Id: 3  
Specification Name: L\_Products  
Map Specification Version: 1.00  
Version Label:

Click on a specific map, Under Mapping specification, on the header menu grid, click on Preview map icon to view mapping preview in detail.



This screenshot is identical to the one above, but with a red arrow pointing to the 'Preview map' icon (represented by a magnifying glass over a document) in the header menu grid of the Mapping Specification window.

Mapping preview is generated in separate window, which can also be exported to excel sheet.

CategoryID	CategoryName	Description	Picture
ALFKI	ALFREDS FUTTERKISTE	maria anders	Sales Representative
ANATR	ANA TRUJILLO EMPAREDAOS Y HELADOS	ana trujillo	Owner
ANTON	ANTONIO MORENO TAQUERÍA	antonio moreno	Owner
AROUT	AROUND THE HORN	thomas hardy	Sales Representative
BERGS	BERGLUNDS SNABBKÖP	christina berglund	Order Administrator
BLAUS	BLAUER SEE DELIKATESSEN	hanna moos	Sales Representative
BLONP	BLONDESDDSL PÈRE ET FILS	frédérique citeaux	Marketing Manager
BOLID	BÓLIDO COMIDAS PREPARADAS	martin sommer	Owner
BONAP	BON APP'	laurence lebihan	Owner
BOTTM	BOTTOM-DOLLAR MARKETS	elizabeth lincoln	Accounting Manager

**NOTE:** Here is the list of Transformations supported in Mapping Preview:

CONCAT, LTRIM, RTRIM, TRIM, CEIL, FLOOR, RPAD, LPAD, ROUND, SQRT, SUBSTR, UPPER, LOWER, TRUNC, SIN, COS, TAN, SINH, COSH, TANH, REVERSE, IS\_DATE, IS\_NUMBER, IS\_SPACES, ISNULL, IIF, ISEMPY, NVL, DECODE.

#### 4.5.7 Applying Custom Styles, Backgrounds and Fonts

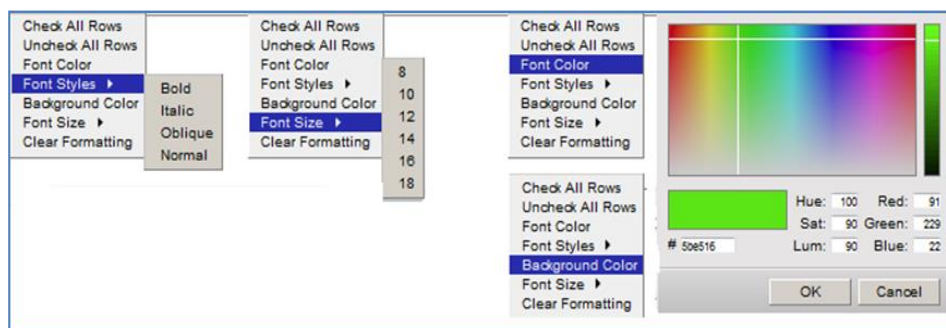
##### Applying Custom Styles, Backgrounds and Fonts:

On the Mapping Specification grid, select the required rows and right click to view the formatting options

Select from options “Font Color”, “Font Styles”, “Background Color” & “Font Size” to customize your mapping specification display

- ✓ Font Style: Select from styles “Bold”, “Italic”, “Oblique” & “Normal”
- ✓ Font size: Select from sizes 8, 10, 12, 14, 16 & 18
- ✓ Font Color & Background Color: Select the desired color from the color selection palette.

##### Formatting Options:



### Sample Grid Customization:

SLNo.	Source System Name	Source Table Name	Source Column Name	Business Rule	Target System Name	Target Table Name	Target Column Name
1	ODS	Employees	Address	UPPER	EDW	Employees	Address
2	ODS	Employees	BirthDate		EDW	Employees	BirthDate
3	ODS	Employees	City	SUBSTR	EDW	Employees	City
4	ODS	Employees	Country	RTRIM	EDW	Employees	Country
5	ODS	Employees	EmployeeID	UPPER	EDW	Employees	EmployeeID
6	ODS	Employees	Extension	RPAD	EDW	Employees	Extension
7	ODS	Employees	FirstName	LTRIM	EDW	Employees	FirstName
8	ODS	Employees	HireDate	1-DataGov(HighDate:12/31/9999)	EDW	Employees	HireDate
9	ODS	Employees	HomePhone		EDW	Employees	HomePhone

### Clear all Formatting:

SLNo.	Source System Name	Source Table Name	Source Column Name	Business Rule	Target System Name	Target Table Name	Target Column Name
1	ODS	Employees	Address	UPPER	EDW	Employees	Address
2	ODS	Employees	BirthDate		EDW	Employees	BirthDate
3	ODS	Employees	City	SUBSTR	EDW	Employees	City
4	ODS	Employees	Country	RTRIM	EDW	Employees	Country
5	ODS	Employees	EmployeeID	UPPER	EDW	Employees	EmployeeID
6	ODS	Employees	Extension	RPAD	EDW	Employees	Extension
7	ODS	Employees	FirstName	LTRIM	EDW	Employees	FirstName
8	ODS	Employees	HireDate	1-DataGov(HighDate:12/31/9999)	EDW	Employees	HireDate

## 4.6 Previewing Data from Actual Databases

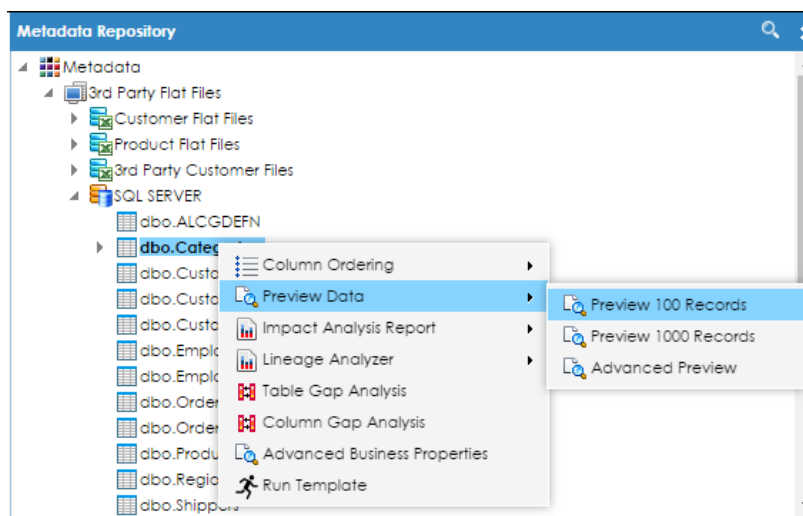
The Metadata Browser of the Mapping Manager Module allows users to preview the actual data in the system environment. This is useful when users need to 'preview' the data at the time of defining the mapping specification to verify the data in the expected format without writing a line of code to do so.

Right click on a table name and select from the available preview options:

**Preview 100 Records:** The first 100 records in the system environment are displayed to the user for analysis

**Preview 1000 Records:** The first 1000 records in the system environment are displayed to the user for analysis

**Advanced Preview:** Allows the user to type in a custom SQL query and analyze the resultant dataset.





Preview Top 100 Records				
Preview Data				
System Name:3rd Party Flat Files				
Environment Name:SQL SERVER				
Table Name:dbo.Categories				
#	CategoryID	CategoryName	Description	
1	1	Beverages	Soft drinks, coffees, teas, beers, and ales	151C2F00020000000D000E0014002100FFFFFFFF4269746D617020496D616765005061696E742E50696374757265000105000002
2	2	Condiments	Sweet and savory sauces, relishes, spreads, and seasonings	151C2F00020000000D000E0014002100FFFFFFFF4269746D617020496D616765005061696E742E5069637475726500
3	3	Confections	Desserts, candies, and sweet breads	151C2F00020000000D000E0014002100FFFFFFFF4269
4	4	Dairy Products	Cheeses	151C2F00020000000D000E0014002100FFFFFFFF4269746D617020496D616765005061696E742E50696374757265000105000002
5	5	Grains/Cereals	Breads, crackers, pasta, and cereal	151C2F00020000000D000E0014002100FFFFFFFF4269746D617020496D616765005061696E742E506963747572650001050000
6	6	Meat/Poultry	Prepared meats	151C2F00020000000D000E0014002100FFFFFFFF4269746D617020496D616765005061696E742E50696374757265000105000002
7	7	Produce	Dried fruit and bean curd	151C2F00020000000D000E0014002100FFFFFFFF4269746D617020496D616765005061696E742E50696374
8	8	Seafood	Seaweed and fish	151C2F00020000000D000E0014002100FFFFFFFF4269746D617020496D616765005061696E742E5069637475726500010500

## 4.7 Uploading Mapping Specification using Excel Template

The mapping manager has the capability to import pre-existing mapping specification that you may already be maintaining. These mapping specifications can be imported into the Mapping Manager by using the Mapping Managers ADS Import template.

### 4.7.1 Import Excel Mappings with Versioning

First the respective columns on the pre-existing mapping specifications must be copied and pasted into the ADS import template and then they are ready for upload. Have an option to version or overwrite the mappings during the excel import process.

Go to Mapping Manager module, Click on Slider Menu and Click the Download Mapping Spec template icon



Save the MS Excel template to disk. You will need this for import later

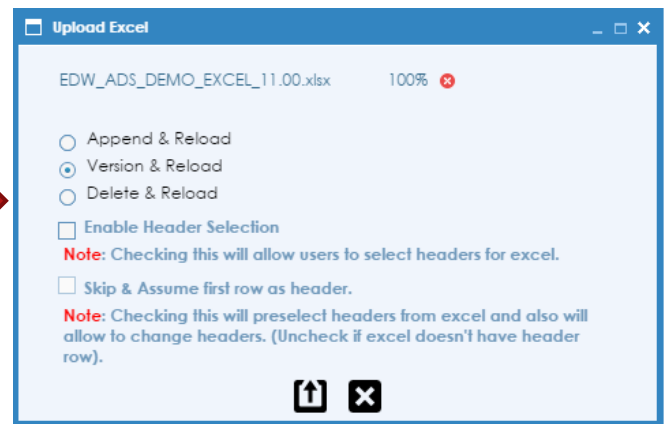
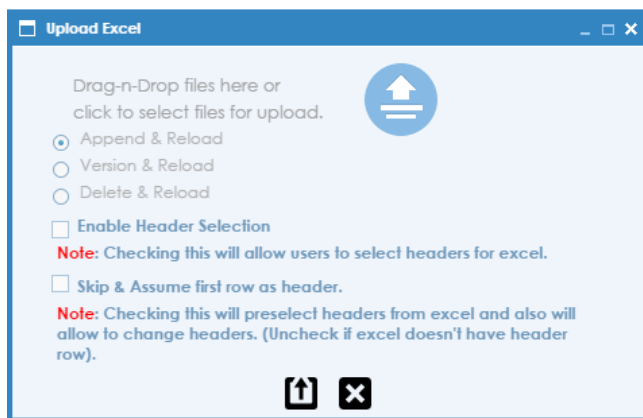
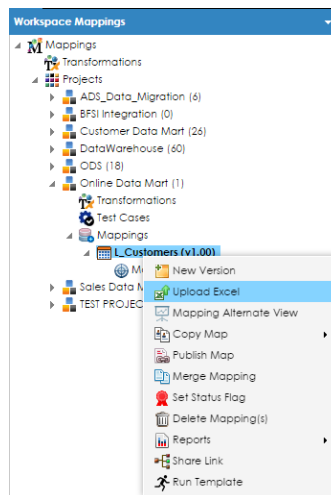
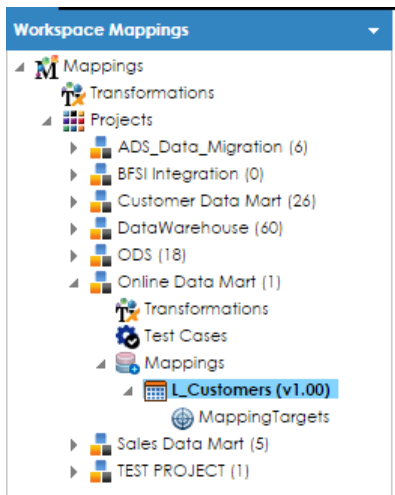
Open the MS Excel and copy and paste your existing mapping specifications into this template. You will need to save the template and save the file. Confirm your mapping specification template contains the correct headers

From the Project browser Navigate to the New Mapping Specification you have created and want to import the MS Excel template to, Right Click and Choose Upload Excel

Browse your file directory to the location you save the MS Excel template to and Click Upload

Your mapping specification has been imported and can now be maintained and versioned using the Mapping Manager during upload process.



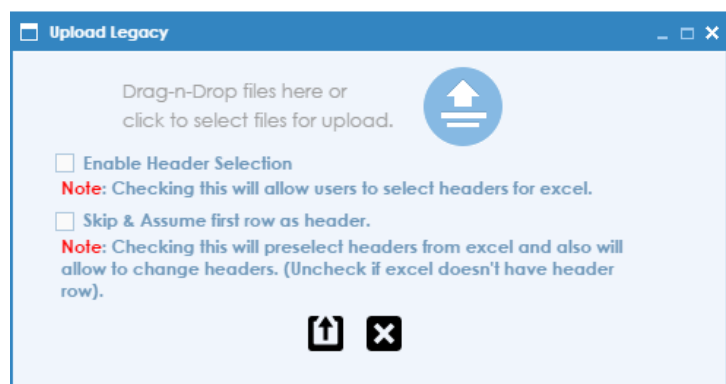
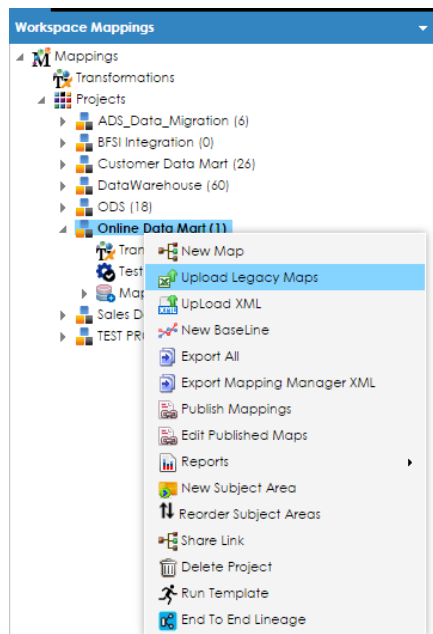


1. Use a single spreadsheet in which all mapping rows are listed ((note: all excel files should contain column headers from the AnalytiX Mapping Spec template) and differentiated by additional Column as "Mapping Name")

**Note:** The column headers in the Excel Files should match with the AnalytiX Template.

Right click on a Project and select the “Upload Legacy Maps” option. Browse and

select your excel file containing all your mappings.



### Sample Excel File Template to upload multiple mappings



MAP_NAME	EXTENDED_BUS_RULE_T	SRC_SYSTEM_NAME	SRC_SYSTEM	SRC_TABLE_NAME	SRC_COLUMN_NAME	SRC_COLUMN_DATA_T	SRC_COLUMN_LENGTH	SRC_COLUMN_PRECISION	SRC_COLUMN_SCALE
Mapping1		ODS	ODS-STAG	Employees	TitleOfCourtesy	nvarchar	25	0	
Mapping1		ODS	ODS-STAG	Employees	Country	nvarchar	15	0	
Mapping1		ODS	ODS-STAG	Employees	Extension	nvarchar	4	0	
Mapping2		ODS	ODS-STAG	Employees	HireDate	datetime	23	3	
Mapping2		ODS	ODS-STAG	Employees	Photo	image	2147483647	0	
Mapping2		ODS	ODS-STAG	Employees	Address	nvarchar	60	0	
Mapping3		ODS	ODS-STAG	Employees	BirthDate	datetime	23	3	
Mapping3		ODS	ODS-STAG	Employees	City	nvarchar	15	0	
Mapping3		ODS	ODS-STAG	Employees	EmployeeID	int identity	10	0	

## 4.8 Viewing, Locking and Unlocking Mapping Specification "Write Locks"

**Security:** To view and edit write locks you must have an Administrator or Power User role based security.

First click on the project in the project browser and select the project with the mappings. You will then be able to view the "Write Locks" or lock and release the mapping locks


To Unlock / Lock the specific Mapping click on the respective icon. If you are locking it, it will be locked on the logged in User Name, and as such anybody trying to Edit the Mapping will get a message showing its been locked by you. Using this feature you can lock any number of Mappings and Normal Users will not be able to edit it, until unlocked.

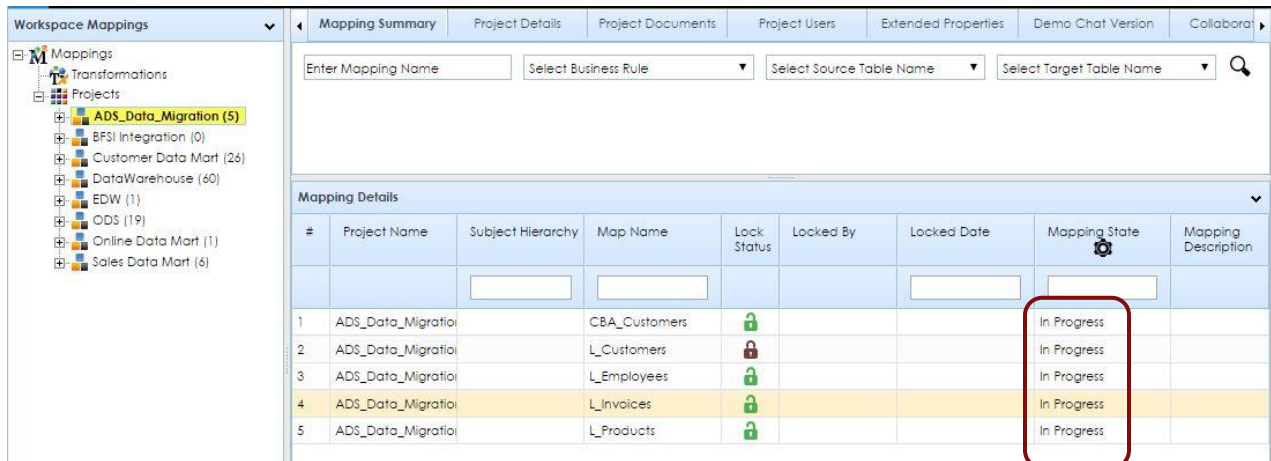
Workspace Mappings		Mapping Summary	Project Details	Project Documents	Project Users	Extended Properties	Demo Chat Version	Collaboration
<div> <div> <div>Mappings</div> <div>Transformations</div> <div>Projects</div> </div> <div> <div>ADS_Data_Migration (5)</div> <div>BFSI Integration (0)</div> <div>Customer Data Mart (26)</div> <div>DataWarehouse (60)</div> <div>EDW (1)</div> <div>ODS (19)</div> <div>Online Data Mart (1)</div> <div>Sales Data Mart (6)</div> </div> </div>		<div> <div>Enter Mapping Name</div> <div>Select Business Rule</div> <div>Select Source Table Name</div> <div>Select Target Table Name</div> <div>Search</div> </div>						
		Mapping Details						
#	Project Name	Subject Hierarchy	Map Name	Lock Status	Locked By	Locked Date	Mapping State	Mapping Description
1	ADS_Data_Migration		CBA_Customers				In Progress	
2	ADS_Data_Migration		L_Customers				In Progress	
3	ADS_Data_Migration		L_Employees				In Progress	
4	ADS_Data_Migration		L_Invoices				In Progress	
5	ADS_Data_Migration		L_Products				In Progress	






## 4.9 Mapping State

Mapping State allows to change the state of mappings within a project, subject area and at map level that can be easily updated without having to go into each map.

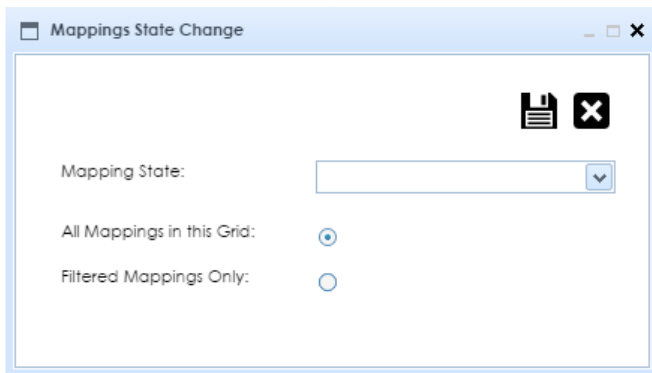
### Project level:

Click on the Project node, on the right side you can have the view the Mapping State name option under Mapping Summary where you can click on mapping state icon  to change the status of maps.



#	Project Name	Subject Hierarchy	Map Name	Lock Status	Locked By	Locked Date	Mapping State	Mapping Description
1	ADS_Data_Migration		CBA_Customers				In Progress	
2	ADS_Data_Migration		L_Customers				In Progress	
3	ADS_Data_Migration		L_Employees				In Progress	
4	ADS_Data_Migration		L_Invoices				In Progress	
5	ADS_Data_Migration		L_Products				In Progress	

Click on Mapping State icon , displays Mapping State change window with dropdown.

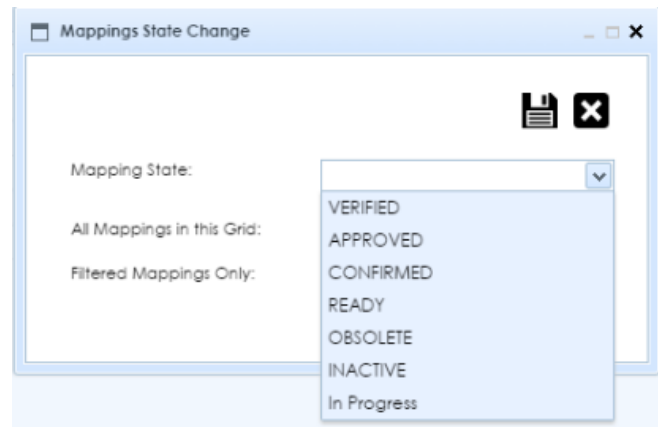


**Mappings State Change**

Mapping State:

All Mappings in this Grid: ☒

Filtered Mappings Only: ☐



**Mappings State Change**

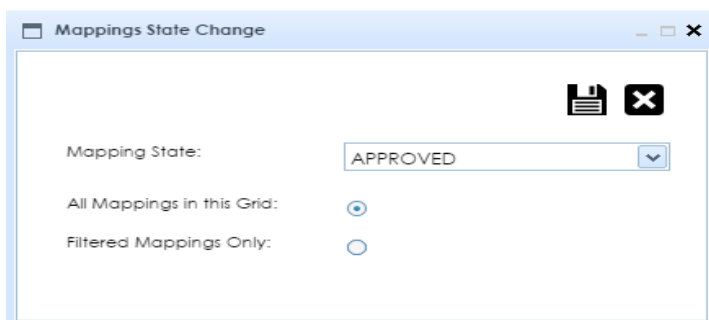
Mapping State:

All Mappings in this Grid: ☐

Filtered Mappings Only: ☐

- VERIFIED
- APPROVED
- CONFIRMED
- READY
- OBSOLETE
- INACTIVE
- In Progress

- **All Mapping in this Grid:** Mapping State is applied to all the mappings with the same grid.
- **Filtered Mapping only:** Mapping State is applied to only filtered mappings only.

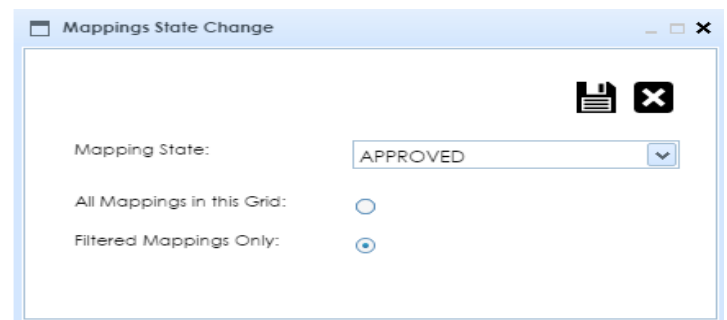


**Mappings State Change**

Mapping State:

All Mappings in this Grid: ☒

Filtered Mappings Only: ☐



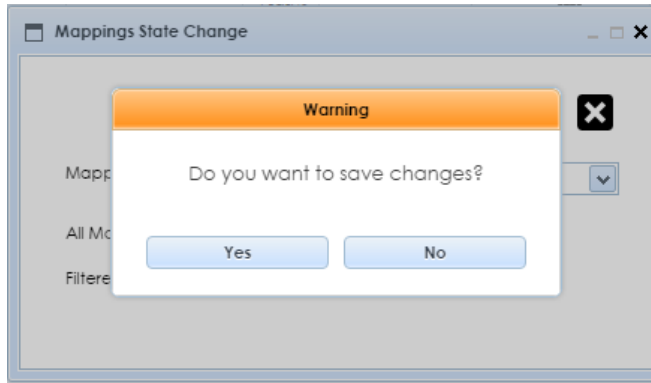
**Mappings State Change**

Mapping State:

All Mappings in this Grid: ☐

Filtered Mappings Only: ☒

Click on “Yes” to save the changes



Mapping state is updated successfully

Workspace Mappings

- Mappings
  - Transformations
  - Projects
    - ADS\_Data\_Migration (5)
      - BFIS Integration (0)
      - Customer Data Mart (26)
      - DataWarehouse (60)
      - ODS (18)
      - Online Data Mart (1)
      - Sales Data Mart (5)

Mapping Search

Enter Mapping Name Select Business Rule Select Source Table Name Select Target Table Name

Mapping Summary

#	Project Name	Subject Hierarchy	Map Name	Lock Status	Locked By	Mapping State	Mapping Description
1	ADS_Data_Migration		CBA_Customers	LOCKED		APPROVED	
2	ADS_Data_Migration		L_Customers	LOCKED		APPROVED	
3	ADS_Data_Migration		L_Employees	LOCKED		APPROVED	
4	ADS_Data_Migration		L_Invoices	LOCKED		APPROVED	
5	ADS_Data_Migration		L_Products	LOCKED		APPROVED	

Metadata

- 3rd Party Flat Files
- Atlas Sales System
- Customer Order Entry
- Data Models
- EDW
- ODS
- Code Mappings
- ICD Crosswalks
- EDW

Map level:

Workspace Mappings

- Mappings
  - Transformations
  - Projects
    - ADS\_Data\_Migration (5)
      - Transformations
      - Test Cases
      - Mappings
        - CBA\_Customers (v1.00)
        - L\_Customers (v1.01)
        - L\_Employees (v1.00)
        - L\_Invoices (v1.00)
        - L\_Products (v1.00)
    - BFIS Integration (0)
    - Customer Data Mart (26)
    - DataWarehouse (60)
    - ODS (18)
    - Online Data Mart (1)
    - Sales Data Mart (5)

Mapping Search

Enter Mapping Name Select Business Rule Select Source Table Name Select Target Table Name

Mapping Summary

#	Project Name	Subject Hierarchy	Map Name	Lock Status	Locked By	Mapping State	Mapping Description
1	ADS_Data_Migration		CBA_Customers	LOCKED		APPROVED	
2	ADS_Data_Migration		L_Customers	LOCKED		APPROVED	
3	ADS_Data_Migration		L_Employees	LOCKED		APPROVED	
4	ADS_Data_Migration		L_Invoices	LOCKED		APPROVED	
5	ADS_Data_Migration		L_Products	LOCKED		APPROVED	

## Subject area level:

**Workspace Mappings**

- Mappings
  - Transformations
  - Projects
    - ADS\_Data\_Migration (5)
    - BFSI Integration (0)
    - Customer Data Mart (26)
    - DataWarehouse (60)
    - ODS (18)
    - Online Data Mart (1)
    - Sales Data Mart (5)
      - Transformations
      - Test Cases
      - Mappings
        - Business (0)
        - CRM (0)
        - Opportunities (5)
          - Customer1 (v1.00)
          - Lineage Map (v1.00)
          - Lineage Map1 (v1.00)
          - Lineage Map3 (v1.00)
          - Lineage Mapping (v1.00)
        - Sales (0)

**Mapping Search**

Enter Mapping Name  Select Business Rule  Select Source Table Name  Select Target Table Name

Project Desc: Building a Data Mart for Sales ...

Mapping Summary							
#	Project Name	Subject Hierarchy	Map Name	Lock Status	Locked By	Mapping State	Mapping Description
1	Sales Data Mart	Opportunities	Customer1			In Progress	
2	Sales Data Mart	Opportunities	Lineage Map			In Progress	
3	Sales Data Mart	Opportunities	Lineage Map1			In Progress	
4	Sales Data Mart	Opportunities	Lineage Map3			In Progress	
5	Sales Data Mart	Opportunities	Lineage Mapping			In Progress	

### 4.10 Adding Mapping Details - Mapping Specification Tabs

The Mapping Details section allows the user to view additional mapping specification details, versions, define source system extract SQL, Define advanced target update strategies, track estimated and actual level of efforts, workflow process tracking and integration with development and testing (testing notes, specifications and dispositions), defining Key value pairs in Extended properties tab, viewing the change log history to the mapping grid and upload any set of attached files that are pertinent to the mapping specification such as Advanced Technical specifications that may be relevant for the individual mapping specification. In addition, 5 user defined tabs are also provided so that these can be renamed and used according to project requirements.

#### List of Mapping Specification tabs:

- ✓ Map Spec Overview
- ✓ Source Extract SQL
- ✓ Target Update Strategy
- ✓ Testing Notes
- ✓ Map Spec Docs
- ✓ Assignments
- ✓ Level of Effort
- ✓ Change Log
- ✓ Extended Properties
- ✓ Collaboration Center
- ✓ User Defined tabs (1—5)

Map Spec Overview

Map Id

7

Specification Name

CBA\_Customers

Map Specification Version

1.00

Version Label

State Name

In Progress

Sub State Name

Sync Source Metadata

OFF

Sync Target Metadata

OFF

Job Name XRef

Mapping Description

Assigned To

Created By

Administrator

Created Date Time

2015-03-16 21:06:38.353

Map Spec Overview

Source Extract SQL

SQL Query

SQL Query Description

Source Extract SQL

Target Update Strategy

Update Strategy Description

UnSpecified

Insert else Update

Update else Insert

Insert

Incremental Update

Incremental

Delete then Insert

Delete

Bulk Load

Other

Target Update Strategy

Map Spec Overview

Source Extract SQL

Target Update Strategy

Testing Notes

Map Spec Docs

Assignment

Testing Notes

UnSpecified

Pass

Fail

Needs Analysis

Testing Notes

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Map Spec Docs				
#	Document Name	Document Link	Document Status	Intended Use Description
Map Spec Docs				

User can upload the documents under Map spec docs and has an ability to preview the uploaded documents

Map Spec Docs				
#	Document Name	Document Link	Document Status	Intended Use Description
1	Mapping_Document			

Document Name\*

Mapping\_Document

Document Object

C:/MappingManager/Projects/Onlin

Document Owner

Document Link

Intended Use Description

Click on Preview icon  to preview the documents in a separate window.

Map Spec Overview	Source Extract SQL	Target Update Strategy	Testing Notes	Map Spec Docs	Assignment
<div>Assigned To</div> <div>Mapping Designer</div> <div>Mapping ETL Developer</div> <div>Mapping Tester</div> <div>Distribution / CC List</div> <div>Custom Notes</div>					
<div>Status</div> <div></div> <div></div> <div></div> <div></div> <div></div>					



Level of Effort

**Planned Level of Effort**

Mapping Effort  Days

ETL Effort  Days

Notes

**Actual Level of Effort**

Mapping Effort  Days

ETL Effort  Days

Notes

Level of Effort

User Defined1
User Defined2
User Defined3
User Defined4
User Defined5

User Defined1

✎

User defined Fields (1-5)

User Defined1
User Defined2
User Defined3
User Defined4
User Defined5
Extended Properties
Test Specification

#

Key

Value

✎

--	--	--	--

Extended Properties



To update a mapping specification tab, go into the edit screen, update the details and click the save icon.

## 4.10.1 Collaboration Center

Using collaboration centre you can Instantly start a topic around a mapping, subject area or project, invite people, collaborate and document all key decisions within the application (and not in your emails)!

We have collaboration centre defined both at Project level and at Map level under Additional mapping information.

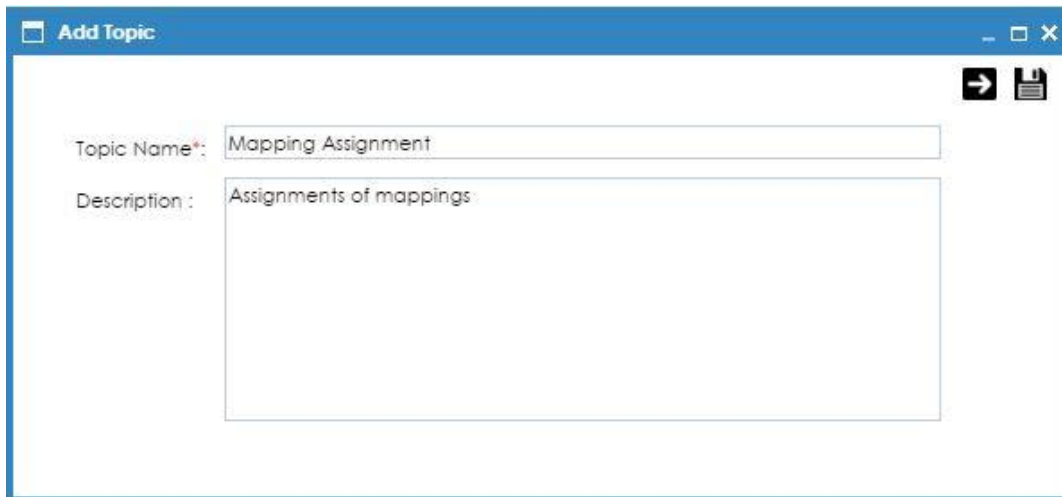
### At Project Level:

#	Project Name	Subject Hierarchy	Map Name	Lock Status	Locked By	Locked Date	Mapping State	Mapping Description
1	ADS_Data_Migrator		CBA_Customers	🔒	Administrator	04/27/2016 00:41:43	In Progress	
2	ADS_Data_Migrator		L_Customers	🔒			In Progress	
3	ADS_Data_Migrator		L_Employees	🔒	Administrator		In Progress	
4	ADS_Data_Migrator		L_Invoices	🔒			In Progress	
5	ADS_Data_Migrator		L_Products	🔒			In Progress	

Click on “Add Topic” icon to start the discussion



Enter Topic name, Description and Click next.



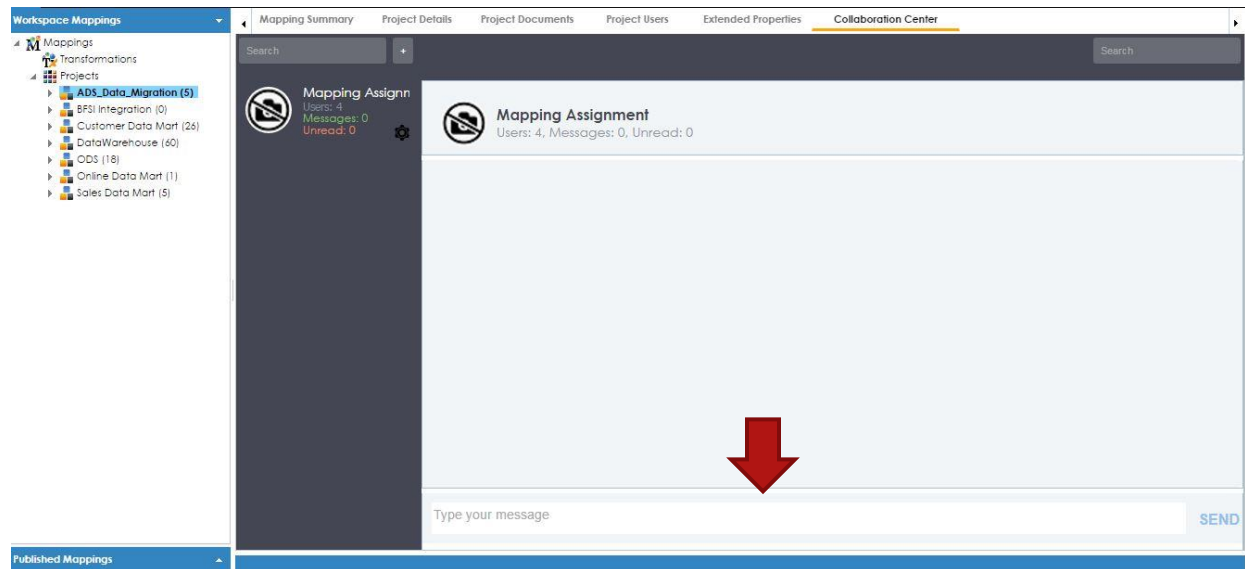
Select the Users to whom you to have discussion, select and continue



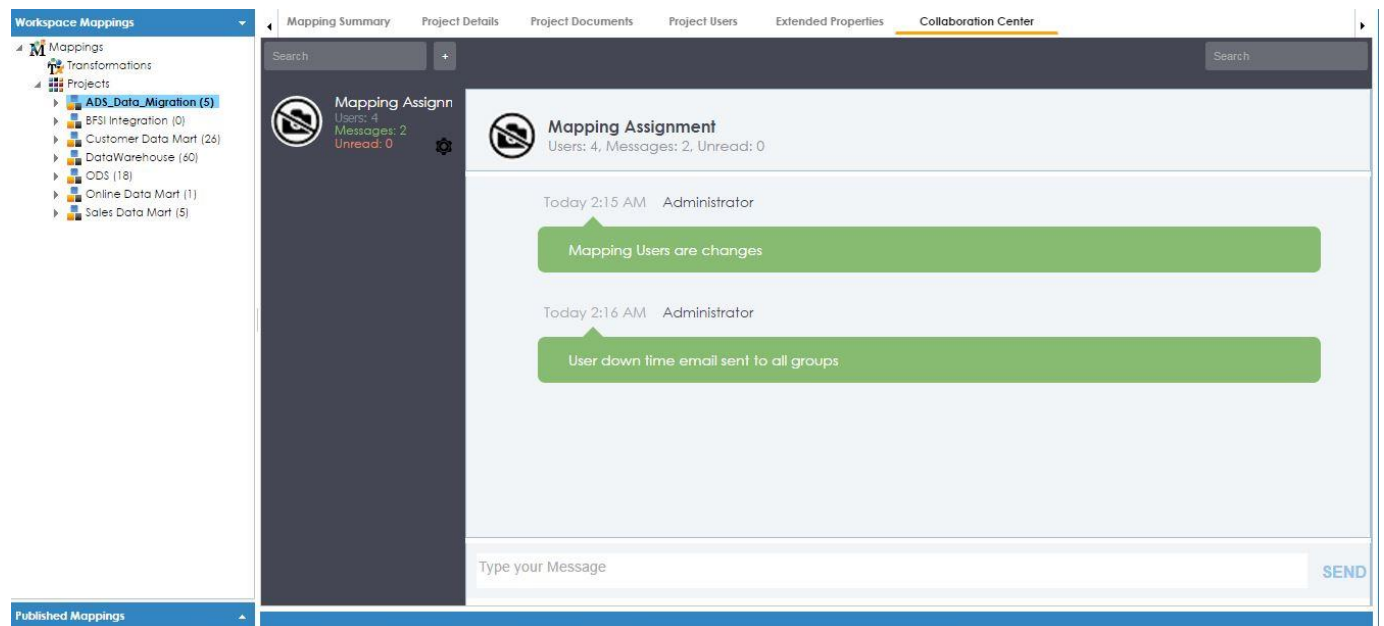
User	Selected
Administrator	Yes
bdylan	No
bmarley	No
jdenver	No
jlennon	No
jmartin	No
kcobain	No

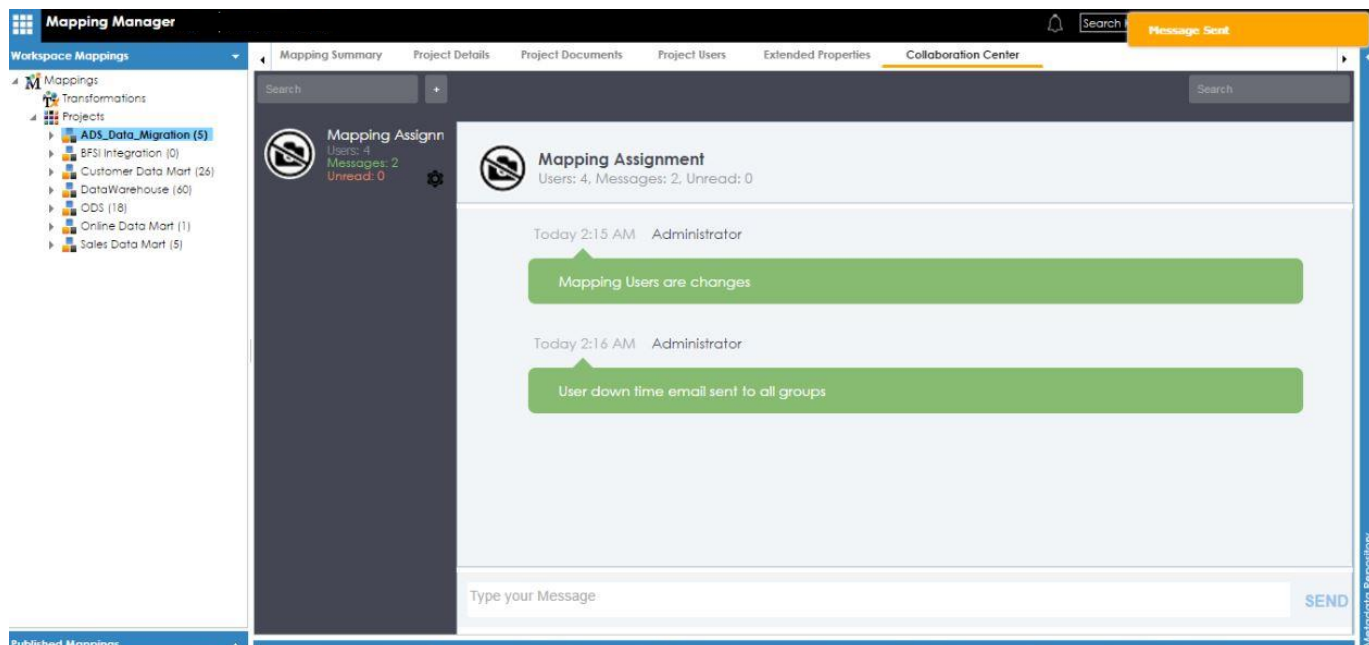


User	Selected
Administrator	Yes
bdylan	No
bmarley	Yes
jdenver	Yes
jlennon	Yes
jmartin	No
kcobain	No



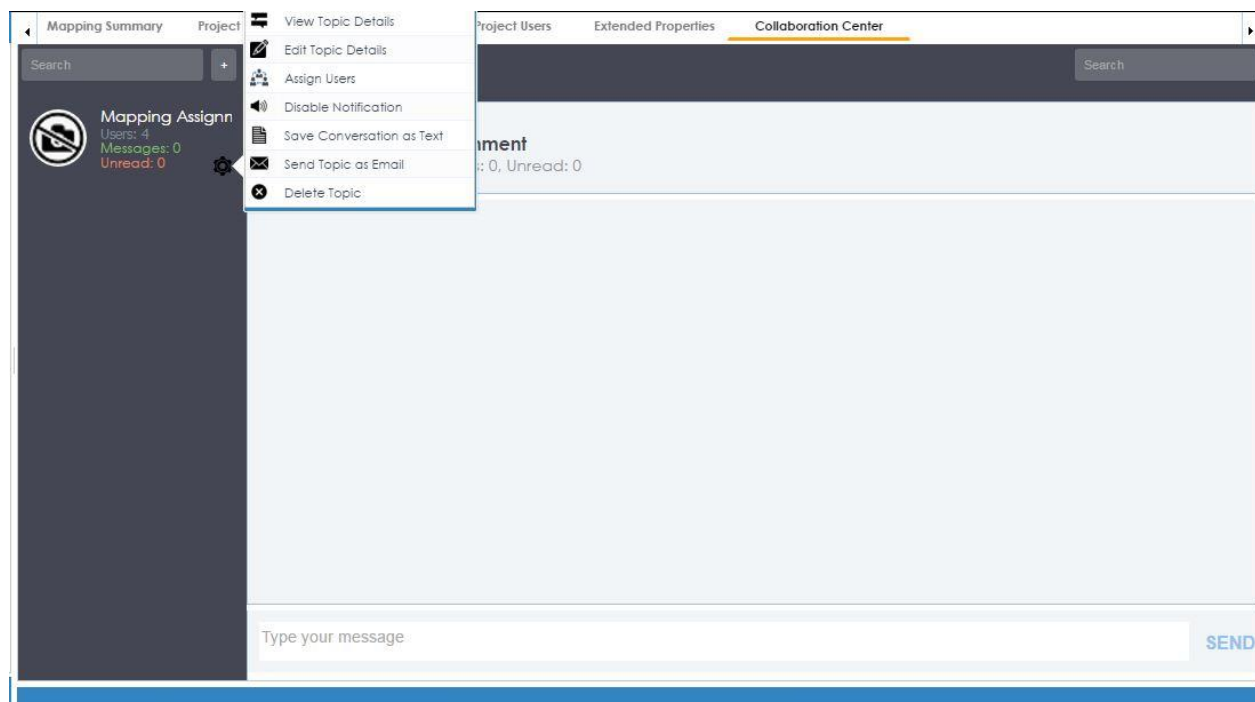
Enter the text, click on send to start the discussion.





Under Settings, you have an option to

- View and Edit the topic details
- Assign Users to the discussion
- Disable Notifications
- Save the conversation as text
- Option to send topic as email to users
- Delete topic



## At Mapping Level:

Collaboration center which is defined under projects, the same is defined at mapping level under Additional Mapping information tabs.

The screenshot shows the 'Mapping Specification' window in the 'Graphical Designer' mode. The left sidebar displays a tree view of 'Workspace Mappings' with 'C8A\_Customers (v1.00)' selected. The main area shows a table of target columns for 'EDW' environment. Below the table, the 'Additional Mapping Information' section is expanded, and the 'Collaboration Center' sub-tab is selected, showing fields for 'Assigned To' and 'Status' for various roles.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale	Target Column Nullable Flag
1	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0	0	<input type="checkbox"/>
2	EDW	EDW-PRD	dbo.Customers	CompanyName	nvarchar	40	0	0	<input type="checkbox"/>
3	EDW	EDW-PRD	dbo.Customers	ContactName	nvarchar	30	0	0	<input checked="" type="checkbox"/>

Additional Mapping Information

Defined2 User Defined3 User Defined4 User Defined5 Extended Properties Test Specification Graphical View **Collaboration Center**

Assigned To Status

Mapping Designer

Mapping Approver

Mapping ETL Developer

Mapping Tester

Distribution / CC List

This screenshot shows the same 'Mapping Specification' window, but with the 'Collaboration Center' sub-tab selected. The main area is mostly blank, with a search bar at the top and a large dark grey area below it.

Mapping Specification

Additional Mapping Information

Defined1 User Defined2 User Defined3 User Defined4 User Defined5 Extended Properties Test Specification Graphical View **Collaboration Center**

Search

Procedure is the same as defined at Project level to create the topic and start the discussion.

## 4.11 Copy/Paste and Drag/Drop Mapping Specifications

Copy Maps are done in two ways:

- Mappings level by selecting Single map.
- Mappings level by selecting multiple maps.

### 4.11.1 Single Copy/Paste Mapping Specifications

In Mappings Level user selects **“Copy Map”** then selected map for copying.

Right click on a mapping that you want to copy/paste and select the “Copy Map” option

- a. Choose “Copy Selected” if you want to copy only the current version.
- b. Choose “Copy All” if you want to copy the entire mapping (including archived versions)

E.g. a mapping is currently versioned v1.02 (along with archived versions v1.00 & v1.01)

- **Copy Selected:**

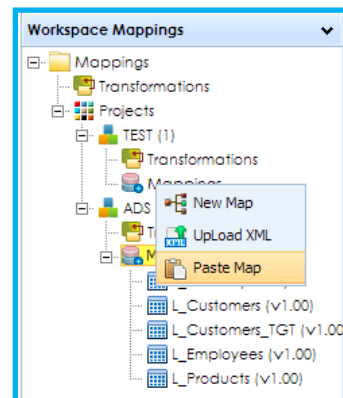
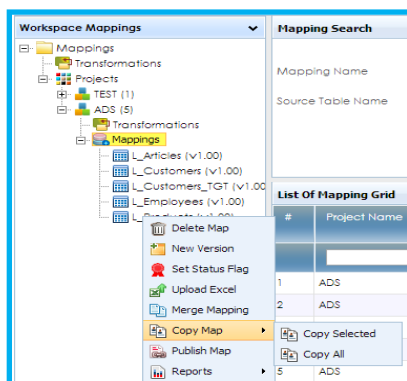
Right click on the V1.02 mapping and choose the “Copy Selected” option and paste into the destination Project/Subject Area. This will create a new v1.00 mapping version in the destination Project/Subject Area.

- **Copy All:**

Right click on the V1.02 mapping and choose the “Copy All” option and paste into the destination Project/Subject Area. This will create a new v1.02 mapping version (along with archived versions 1.01 & 1.00) in the destination Project/Subject Area.

Select the Destination Project/Subject Area and right click on the **“Mappings”** option and select the **“Paste Map”** option

The newly pasted map is displayed under the selected destination Project/Subject Area



**Mappings can only be pasted onto the “Mappings” option under a Project/Subject Area.**

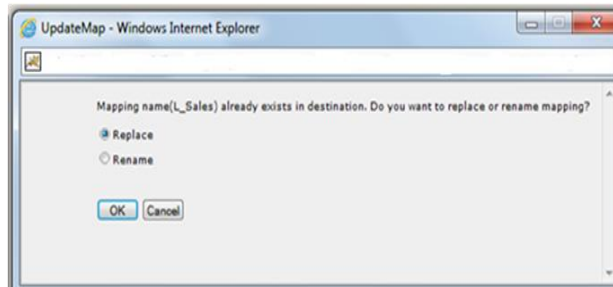


*Mapping Names are unique within a Project. When copy/pasting a mapping, if the selected source mapping name already exists in the destination, the system will prompt you to either replace/rename the mapping.*

## Using the Replace/Rename option in case of a Mapping Name conflict:

### Replace:

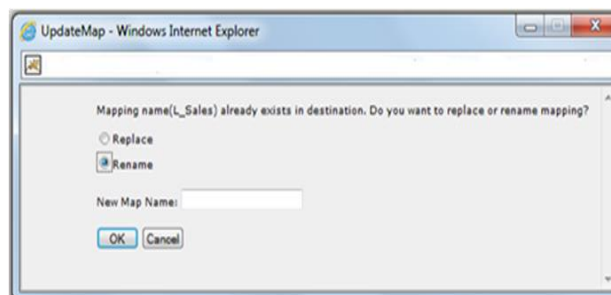
You can choose the “Replace” option if you want to overwrite the existing mapping in the destination Project/Subject Area with the mapping copied from the source Project/Subject Area. To replace the existing Map in the destination Project/Subject Area with the map copied from the Source Project/Subject Area, select the Replace option and click the OK button.



**Note:** Using the “Replace” option will only overwrite the current mapping specification details in the destination Project/Subject Area and will not impact the current mapping version number or any of the previously versioned mappings (archived mappings).

### Rename:

You can choose the “Rename” option if you want to paste the copied Map with a new name in the destination Project/Subject Area. To paste the copied map as a new map in the destination Project/Subject, select the Rename option, enter a new map name and click the OK button.

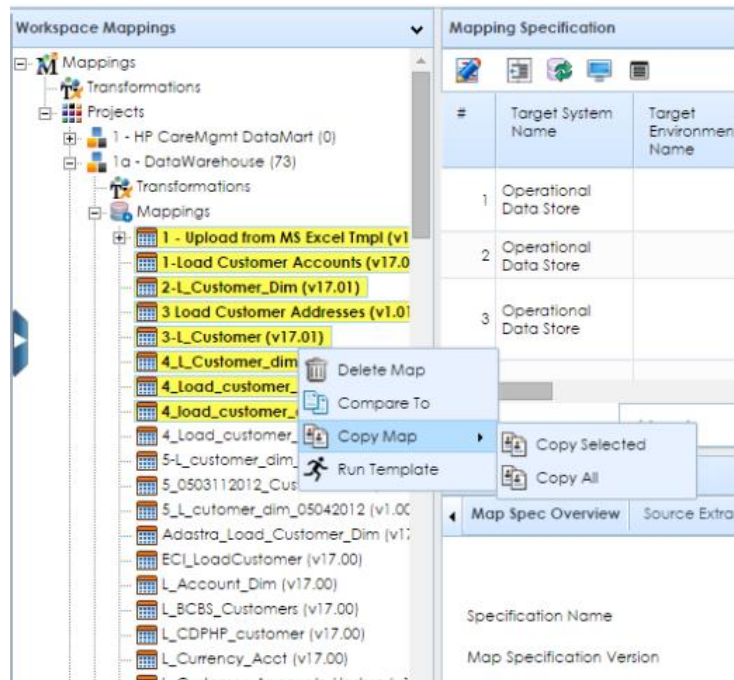


**Note:** Using the “Rename” option will create a new map (along with archived maps) in the destination Project/Subject.

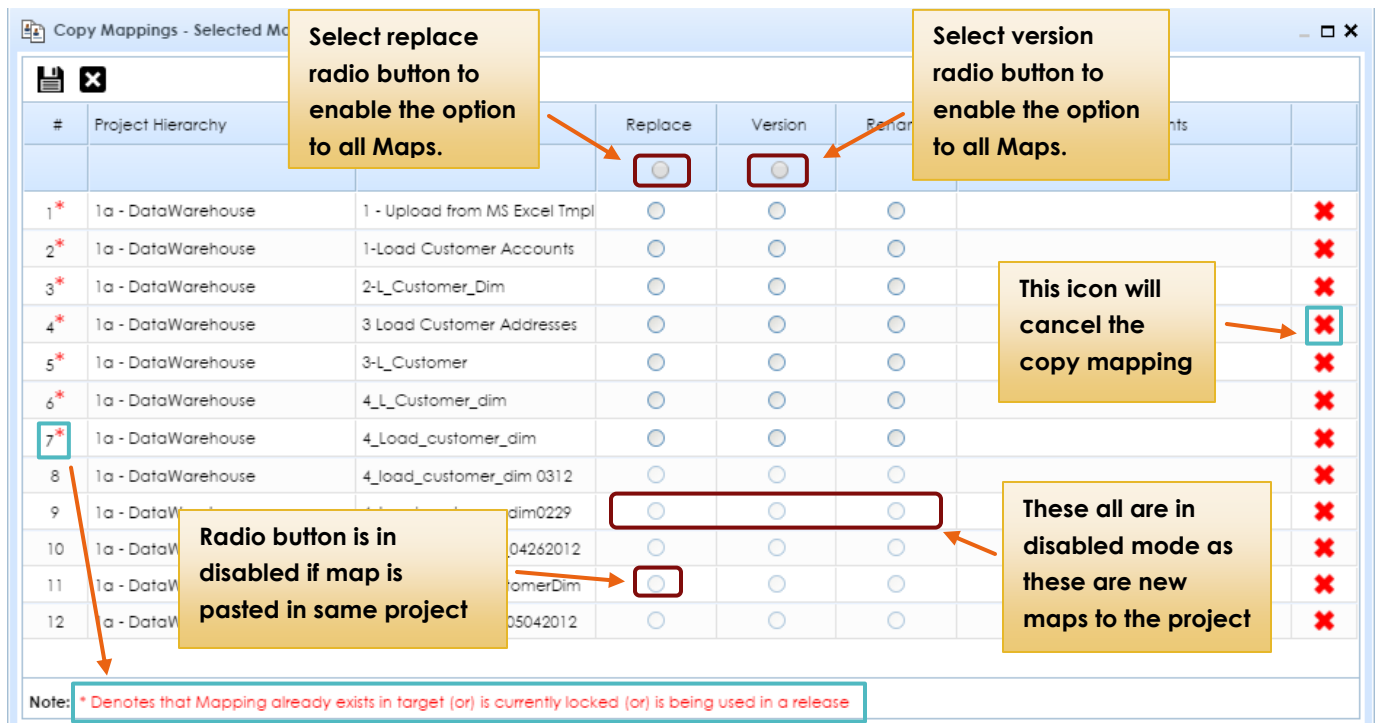


#### 4.11.2 Multiple Copy/Paste Mapping Specifications

In Mappings Level user select multiple maps, right click and select “**Copy Map**” then all selected mappings are displayed in grid then user selects operation for copying.



Go to the project where you want to copy the selected maps, Right click the Mapping node and select “Paste Map” option. If the destination Project already exists a map with same name than it displays copied maps list window with Replace, Version and Rename options.



User checks “Replace” header then all maps are selected that are under replace except the locked, same target, same name and release maps.

Copy Mappings - Selected Mappings List

#	Project Hierarchy	Map Name	Replace	Version	Rename	Mail Comments	
			<input checked="" type="radio"/>	<input type="radio"/>			
1*	1a - DataWarehouse	1 - Upload from MS Excel Tmpl	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
2*	1a - DataWarehouse	1-Load Customer Accounts	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
3*	1a - DataWarehouse	2-L_Customer_Dim	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
4*	1a - DataWarehouse	3 Load Customer Addresses	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
5*	1a - DataWarehouse	3-L_Customer	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
6*	1a - DataWarehouse	4_L_Customer_dim	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
7*	1a - DataWarehouse	4_Load_customer_dim	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
8	1a - DataWarehouse	4_load_customer_dim 0312	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
9	1a - DataWarehouse	4_Load_customer_dim0229	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
10	1a - DataWarehouse	5-L_customer_dim_04262012	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
11	1a - DataWarehouse	5_0503112012_CustomerDim	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
12	1a - DataWarehouse	5_L_customer_dim_05042012	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗

Note: \* Denotes that Mapping already exists in target (or) is currently locked (or) is being used in a release

If user checks the Version radio button for single map or for multiple maps it displays window to enter new version label with change description, if version is selected at header menu than all maps are selected that are under version except locked, same name and release maps

Copy Mappings - Selected Mappings List

#	Project Hierarchy	Map Name	Replace	Version	Rename	Mail Comments	
			<input type="radio"/>	<input checked="" type="radio"/>			
1*	1a - DataWarehouse	1 - Upload from MS Excel Tmpl	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		✗
2*	1a - DataWarehouse	1-Load Customer Accounts	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		✗
3*	1a - DataWarehouse	2-L_Customer_Dim	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		✗
4*	1a - DataWarehouse	3 Load Customer Addresses	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		✗
5*	1a - DataWarehouse	3-L_Customer	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		✗
6*	1a - DataWarehouse	4_L_Customer_dim	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		✗
7*	1a - DataWarehouse	4_Load_customer_dim	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		✗
8	1a - DataWarehouse	4_load_customer_dim 0312	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
9	1a - DataWarehouse	4_Load_customer_dim0229	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
10	1a - DataWarehouse	5-L_customer_dim_04262012	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
11	1a - DataWarehouse	5_0503112012_CustomerDim	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗
12	1a - DataWarehouse	5_L_customer_dim_05042012	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		✗

Note: \* Denotes that Mapping already exists in target (or) is currently locked (or) is being used in a release

New Version

Version Label :

Changed Description\* : 

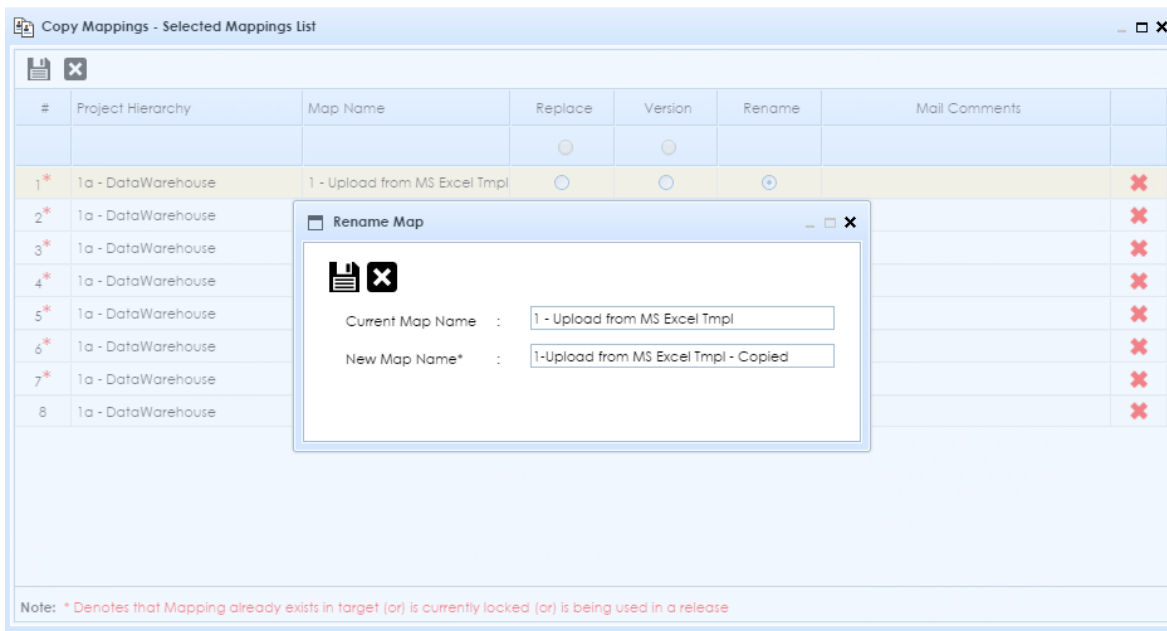
B I U

Styles

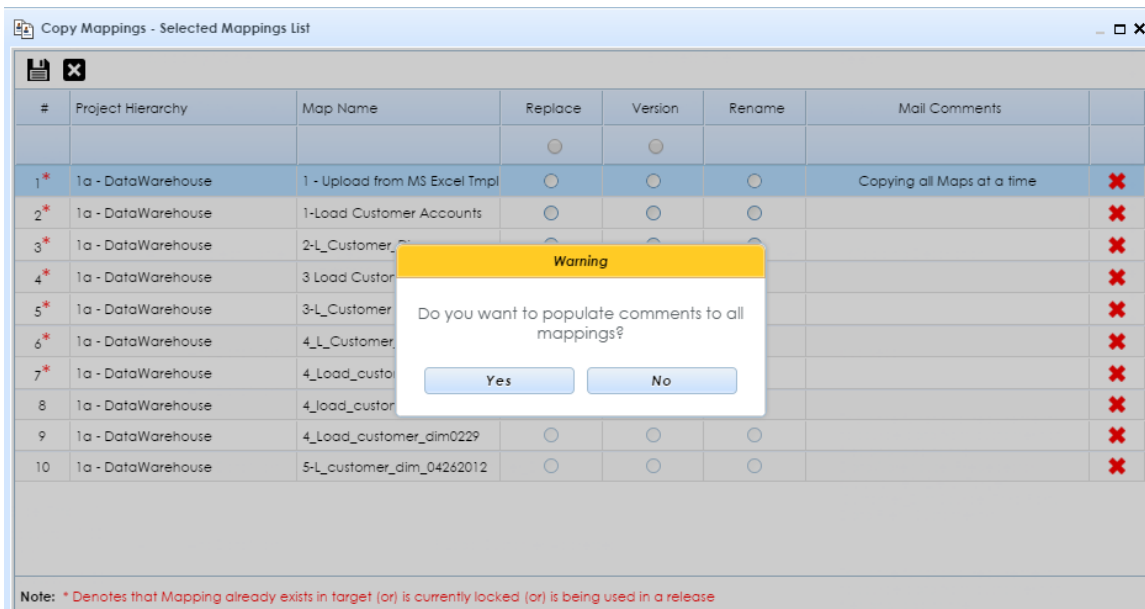
Format

Size

Rename Radio button is in enabled mode if the destination project already exists a map with same name, Check the radio button under Rename which pops up Rename Map window, enter new map name and click on save icon, the new map will be populated in the grid.



Enter Mail comments for the maps to be copied, double click the mail comments window specific to a map and enter the comments.



After inserting mail comments alert will be displayed for copying comments to all maps, click "yes" for mail comments to be copied to all mappings in the grid as shown in the below screenshot.

#	Project Hierarchy	Map Name	Replace	Version	Rename	Mail Comments	
1*	1a - DataWarehouse	1 - Upload from MS Excel Tmpl	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Copying all Maps at a time	✗
2*	1a - DataWarehouse	1-Load Customer Accounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Copying all Maps at a time	✗
3*	1a - DataWarehouse	2-L_Customer_Dim	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Copying all Maps at a time	✗
4*	1a - DataWarehouse	3 Load Customer Addresses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Copying all Maps at a time	✗
5*	1a - DataWarehouse	3-L_Customer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Copying all Maps at a time	✗
6*	1a - DataWarehouse	4_L_Customer_dim	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Copying all Maps at a time	✗
7*	1a - DataWarehouse	4_Load_customer_dim	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Copying all Maps at a time	✗
8	1a - DataWarehouse	4_load_customer_dim 0312	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Copying all Maps at a time	✗
9	1a - DataWarehouse	4_Load_customer_dim0229	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Copying all Maps at a time	✗
10	1a - DataWarehouse	5-L_customer_dim_04262012	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Copying all Maps at a time	✗

Note: \* Denotes that Mapping already exists in target (or) is currently locked (or) is being used in a release

Click Save icon on top left corner to copy the maps successfully.

#	Project Hierarchy	Map Name	Status
1	taWarehouse	1 - Upload from MS Excel Tmpl	Mapping 1 - Upload from MS Excel Tmpl is successfully replaced
2	taWarehouse	1-Load Customer Accounts	Mapping 1-Load Customer Accounts is successfully replaced
3	taWarehouse	2-L_Customer_Dim	Mapping 2-L_Customer_Dim is successfully replaced
4	taWarehouse	3 Load Customer Addresses	Mapping 3 Load Customer Addresses is successfully replaced
5	taWarehouse	3-L_Customer	Mapping 3-L_Customer is successfully replaced
6	1a - DataWarehouse	4_L_Customer_dim	Mapping 4_L_Customer_dim is successfully replaced
7	1a - DataWarehouse	4_Load_customer_dim	Mapping 4_Load_customer_dim is successfully replaced
8	1a - DataWarehouse	4_load_customer_dim 0312	4_load_customer_dim 0312 Is Successfully Copied
9	1a - DataWarehouse	4_Load_customer_dim0229	4_Load_customer_dim0229 Is Successfully Copied
10	1a - DataWarehouse	5-L_customer_dim_04262012	5-L_customer_dim_04262012 Is Successfully Copied

Note: Denotes Copying Successful Denotes Copying Failed

After successful copying, all the copied maps are displayed in the grid

If the copied Mappings are new to the destination project than it won't display replace, rename and version options, Click save icon to copy the mappings.

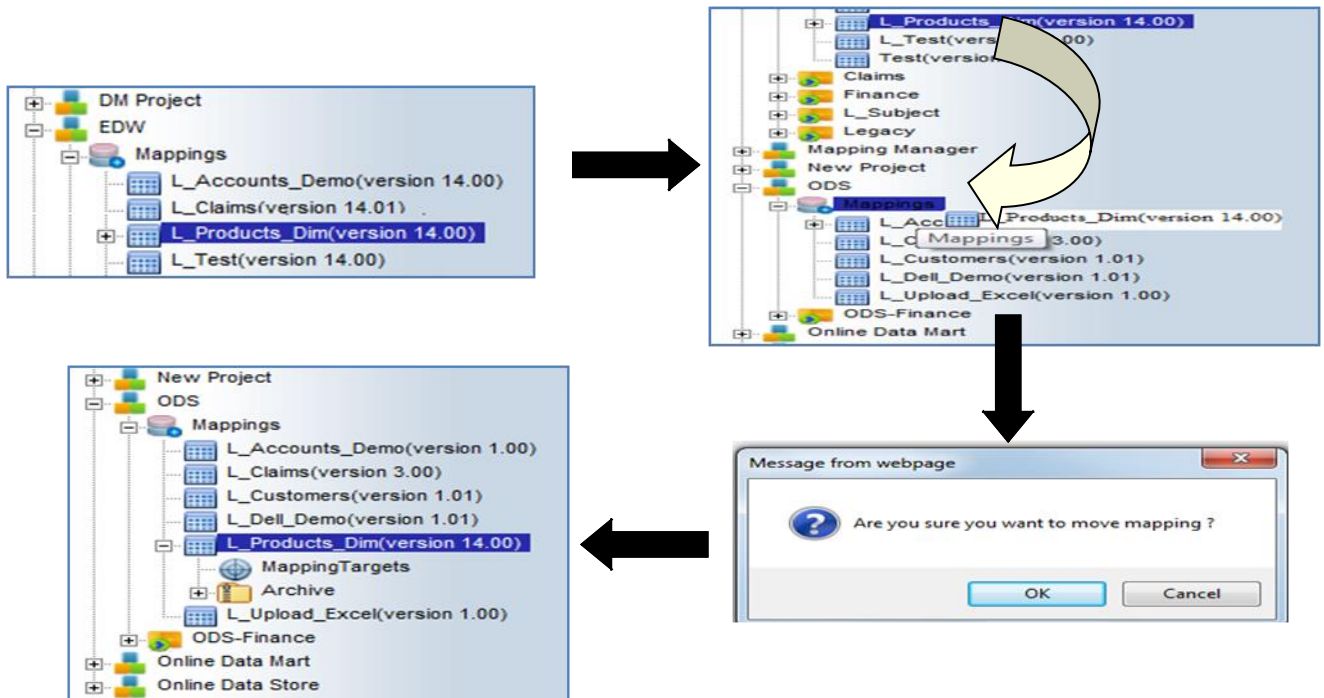
#	Project Hierarchy	Map Name	Mail Comments	
1	1a - DataWarehouse	1 - Upload from MS Excel Tmpl		✗
2	1a - DataWarehouse	1-Load Customer Accounts		✗
3	1a - DataWarehouse	2-L_Customer_Dim		✗
4	1a - DataWarehouse	3 Load Customer Addresses		✗
5	1a - DataWarehouse	3-L_Customer		✗
6	1a - DataWarehouse	4-L_Customer_dim		✗
7	1a - DataWarehouse	4-Load_customer_dim		✗

Note: \* Denotes that Mapping already exists in target (or) is currently locked (or) is being used in a release

#### 4.11.3 Drag & Drop Mapping Specifications

Mapping Specifications can be dragged and dropped from one Project/Subject Area into another Project/Subject Area.

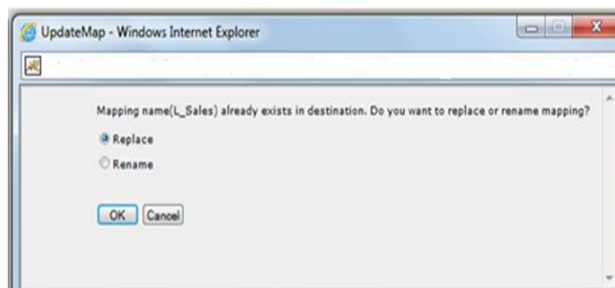
- Select a Mapping under a source Project/Subject Area
- Select the Destination Project/Subject Area and Drag n Drop the selected mapping onto the “Mappings” option.
- The system prompts the user with a message as shown. Click the OK button to proceed
- The map has been dropped to the destination and is displayed under the selected destination Project/Subject Area.



## Using the Replace/Rename option in case of a Mapping Name conflict

### Replace:

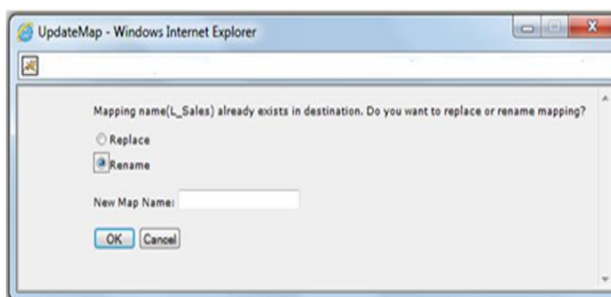
You can choose the “Replace” option if you want to overwrite the existing mapping in the destination Project/Subject Area with the mapping copied from the source Project/Subject Area. To replace the existing Map in the destination Project/Subject Area with the map copied from the Source Project/Subject Area, select the Replace option and click the OK button.



**Note:** Using the “Replace” option will only overwrite the current mapping specification details in the destination Project/Subject Area and will not impact the current mapping version number or any of the previously versioned mappings (archived mappings).

### Rename:

You can choose the “Rename” option if you want to paste the copied Map with a new name in the destination Project/Subject Area. To paste the copied map as a new map in the destination Project/Subject, select the Rename option, enter a new map name and click the OK button.



**Note:** Using the “Rename” option will create a new map (along with archived maps) in the destination Project/Subject.



## 4.12 Branch and Merge Mapping

This section gives you detailed steps of Branch and Merge feature with functionality.

- Go to an existing map (e.g. CBA\_Customers)

The screenshot displays the Erwin Mapping Specification window for the 'CBA\_Customers' map. The 'Mapping Specification' tab is active, showing a table with 4 rows of target system mappings. The 'Additional Mapping Information' section is expanded, showing the 'Map Spec Overview' tab with fields for Map Id (7), Specification Name (CBA\_Customers), and Map Specification Version (1.00). The 'Metadata Catalogue' on the right shows the 'dbo.Customers' table selected in the 'EDW-PRD' environment.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale
1	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0	0
2	EDW	EDW-PRD	dbo.Customers	CompanyName	nvarchar	40	0	0
3	EDW	EDW-PRD	dbo.Customers	ContactName	nvarchar	30	0	0
4	EDW	EDW-PRD	dbo.Customers	ContactTitle	nvarchar	30	0	0

Additional Mapping Information:

Map Id: 7  
Specification Name: CBA\_Customers  
Map Specification Version: 1.00

### BRANCH MAPPING:

Create a copy of the parent mapping in another subject area or project. This is considered as the child mapping.

The screenshot shows the Erwin Mapping Specification window with the 'Copy Map' context menu open. The menu options include 'New Version', 'Upload Excel', 'Mapping Alternate View', 'Copy Map', 'Publish Map', 'Merge Mapping', 'Set Status Flag', 'Delete Mapping(s)', 'Reports', 'Share Link', and 'Run Template'. The 'Copy Map' option is highlighted, and a sub-menu is visible with 'Copy Selected' and 'Copy All' options. The background shows the same mapping configuration as the previous screenshot.

The screenshot shows the Erwin Mapping Specification window. The left pane displays the 'Workspace Mappings' tree, with 'CBA\_Customers (v1.00)' selected. The main pane shows the 'Mapping Specification' table with 4 rows. The right pane shows the 'Metadata Catalogue' with 'dbo.Customers' selected.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale
1	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0	0
2	EDW	EDW-PRD	dbo.Customers	CompanyName	nvarchar	40	0	0
3	EDW	EDW-PRD	dbo.Customers	ContactName	nvarchar	30	0	0
4	EDW	EDW-PRD	dbo.Customers	ContactTitle	nvarchar	30	0	0

Additional Mapping Information: Map Id: 359

The screenshot shows the Erwin Mapping Specification window after renaming the mapping. The left pane displays the 'Workspace Mappings' tree, with 'Draft Copy (v1.00)' selected. The main pane shows the 'Mapping Specification' table with 4 rows. The right pane shows the 'Metadata Catalogue' with 'dbo.Customers' selected.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale
1	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0	0
2	EDW	EDW-PRD	dbo.Customers	CompanyName	nvarchar	40	0	0
3	EDW	EDW-PRD	dbo.Customers	ContactName	nvarchar	30	0	0
4	EDW	EDW-PRD	dbo.Customers	ContactTitle	nvarchar	30	0	0

Additional Mapping Information: Map Id: 359, Specification Name: Draft Copy

Rename this copied mapping if required to differentiate from parent mapping (not mandatory)

In the screenshot, the child copy “CBA\_Customers” is being renamed to “Draft Copy”

Make changes to this child mapping (“Draft Copy”).

In this example,

- ✓ 2 New Source-To-Target rows have been added to the child mapping
- ✓ 1 row from the original mapping has been deleted



Similarly, other updates like business rule changes etc., can also be made

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale
9	EDW	EDW-PRD	dbo.Customers	Country	nvarchar	15	0	0
10	EDW	EDW-PRD	dbo.Customers	Phone	nvarchar	24	0	0
11	EDW	EDW-PRD	dbo.Customers	Fax	nvarchar	24	0	0
12	EDW	EDW-TEST	dbo.Orders	CustomerID	nchar	10	0	0
13	EDW	EDW-TEST	dbo.Orders	OrderID	int	4	10	0

Total Rows: 13 | Target Tables: 2 | Source Tables: 2 | Targets Not Mapped: 0 | Sources Not Mapped: 0 | Business Rules: 0 | Possible Truncations: 2 | Look Ups: 0

Records from 1 to 13 | Page 1 | 100 rows per page

## Merge changes into Parent Mapping

**STEP 1:** Right click on CBA\_Cusotmers and click on Merge Mapping option

**STEP 2:** Select the Map to be merged (Map Name: **Draft Copy**) and click on Merge icon.

**STEP 3:** Merge Map pop-up window will display 4 sections.

## Distinct data in source map section.

Distinct data in source map section displayed two newly added records in Draft Copy map.

## Distinct data in destination map section.

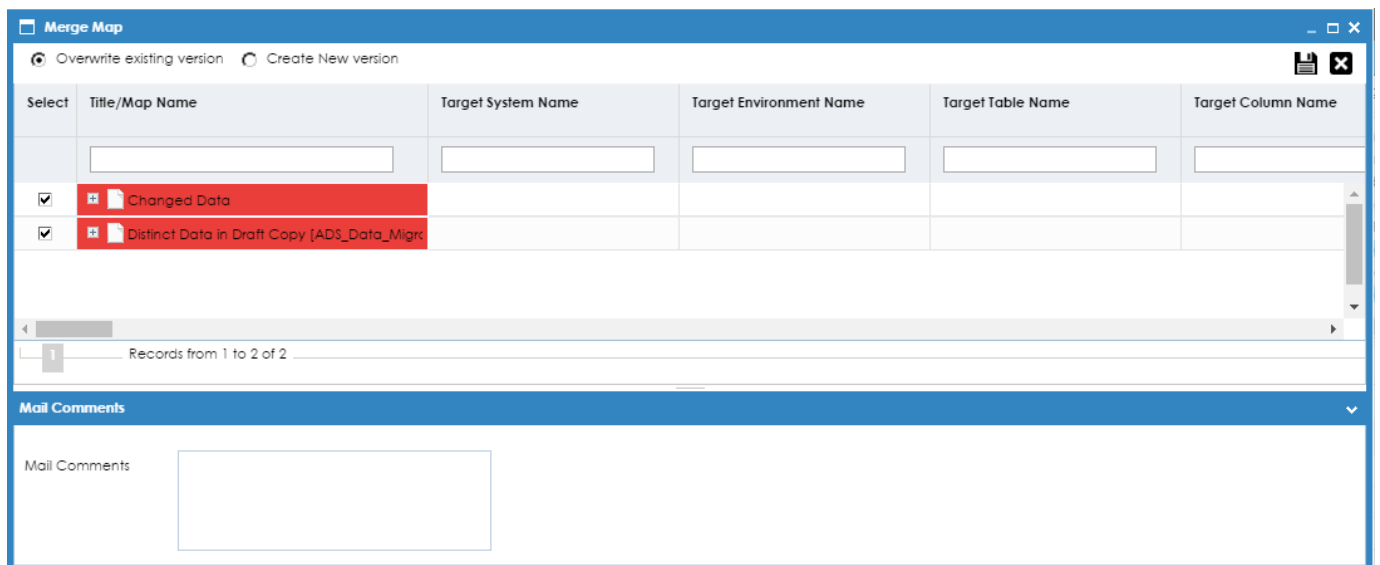
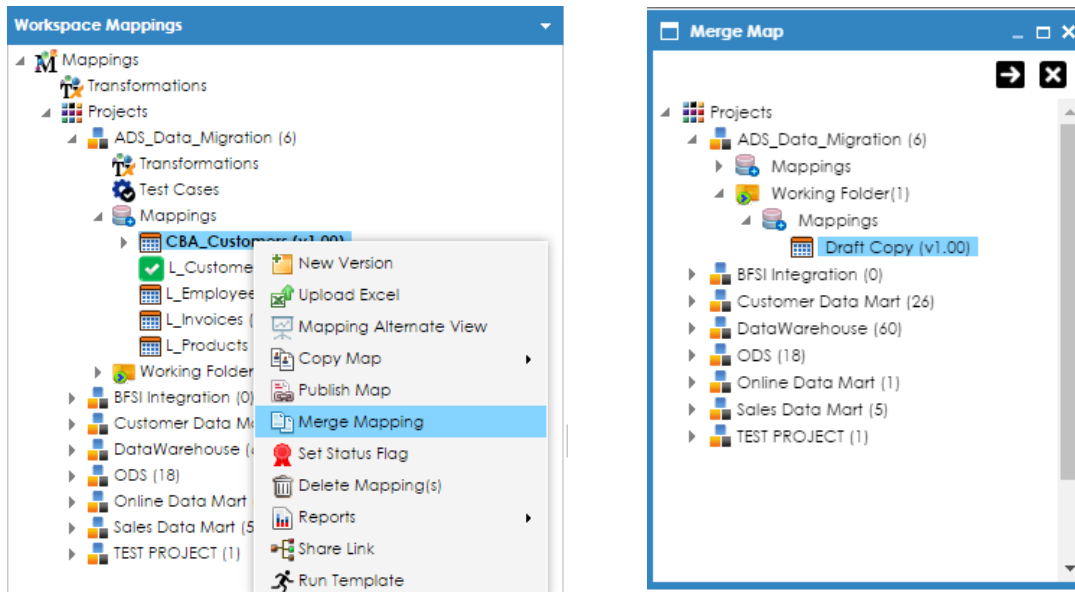
Distinct data in destination map section displayed the distinct record in Test Map which is deleted in Draft Copy map.

## Changed Data section

Changed Data where the Source and Target columns remain the same and other information like Business Rules, Lookups, Map Spec Row comments etc., may have changed

## Unchanged data section.

Unchanged data or Common data in both CBA\_Customers and Draft Copy are displayed



Merge Map

Overwrite existing version

Create New version

Select

Title/Map Name

Target System Name

Target Environment Name

Target Table Name

Target Column Name

Select	Title/Map Name	Target System Name	Target Environment Name	Target Table Name	Target Column Name
<input checked="" type="checkbox"/>	Draft Copy(1.00) [ADS_Data_Migration/ \	EDW	EDW-PRD	dbo.Customers	PostalCode
<input type="checkbox"/>	CBA_Customers(1.00) [ADS_Data_Migrati	EDW	EDW-PRD	dbo.Customers	Region
<input checked="" type="checkbox"/>	Draft Copy(1.00) [ADS_Data_Migration/ \	EDW	EDW-PRD	dbo.Customers	Region
<input checked="" type="checkbox"/>	Distinct Data in Draft Copy [ADS_Data_Migr				
<input checked="" type="checkbox"/>	Draft Copy(1.00) [ADS_Data_Migration/ \	EDW	EDW-TEST	dbo.Orders	CustomerID
<input checked="" type="checkbox"/>	Draft Copy(1.00) [ADS_Data_Migration/ \	EDW	EDW-TEST	dbo.Orders	OrderID
<input checked="" type="checkbox"/>	Draft Copy(1.00) [ADS_Data_Migration/ \	EDW	EDW-PRD	dbo.Customers	Fax

1

Records from 1 to 25 of 25

Mail Comments

Mail Comments

## Checkboxes to select rows to be written into the Parent Mapping

- ✓ **Distinct data in destination map section.**
- ✓ **Distinct data in source map section.**
- ✓ **Unchanged data section.**

All distinct Source-Target rows in the above 3 cases are selected by default (checkboxes)

## Changed Data Section

In case of changed data (conflicts), the Source-Target row from the child mapping is selected by default as this is the latest copy that was worked upon. User can select the row from the parent mapping if they intend to keep the original row (User selection)

From the above 4 sections, Select the rows that need to be written into the parent copy.

When merging changes from a child mapping into a Parent Mapping, two options are available

1. Overwrite existing Parent Mapping contents with the latest changes
2. Preserve the original parent mapping version and incorporate these latest changes into a new version (so as to keep the older version of the parent mapping intact).

Select the desired option to Merge changes into the Parent mapping.

Data is merged into the Parent mapping as shown in the below screenshots

The screenshot displays the Erwin Mapping Manager interface. On the left, the 'Workspace Mappings' tree shows a project named 'ADS\_Data\_Migration (5)' with a sub-project 'C8A\_Customers (v1.00)'. The main area is titled 'Mapping Specification' and contains a table with 5 rows of mapping data. Below the table, a summary bar indicates 'Total Rows: 13', 'Target Tables: 2', 'Source Tables: 2', 'Targets Not Mapped: 0', 'Sources Not Mapped: 0', 'Business Rules: 0', and 'Possible Truncations: 0'. The 'Additional Mapping Information' section at the bottom shows 'Map Id' as 7. On the right, the 'Metadata Catalogue' lists various attributes like 'EnglishProductName', 'FinishedGoodsFlag', 'FrenchDescription', 'FrenchProductName', 'HebrewDescription', 'LargePhoto', 'ListPrice', 'ModelName', 'ProductAlternateKey', 'ProductKey', 'ProductLine', 'ProductSubcategoryKey', 'ReorderPoint', 'SafetyStockLevel', 'Size', 'SizeRange', 'SizeUnitMeasureCode', 'SpanishProductName', 'StandardCost', 'StartDate', 'Status', 'Style', 'ThaiDescription', 'Weight', 'WeightUnitMeasureCode', and 'DimProductCategory'.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision
1	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0
2	EDW	EDW-PRD	dbo.Customers	CompanyName	nvarchar	40	0
3	EDW	EDW-PRD	dbo.Customers	ContactName	nvarchar	30	0
4	EDW	EDW-PRD	dbo.Customers	ContactTitle	nvarchar	30	0
5	EDW	EDW-PRD	dbo.Customers	Address	nvarchar	60	0

## 4.13 Using the User Defined Flex Fields

The Mapping Manager captures thirty-two metadata elements at the row level of the mapping specifications. If there is a data element that is not captured and labeled as per your specification we have also provided the use of **40 flexible user defined fields** that can be used any way you deem appropriate at the row level of the mapping specification

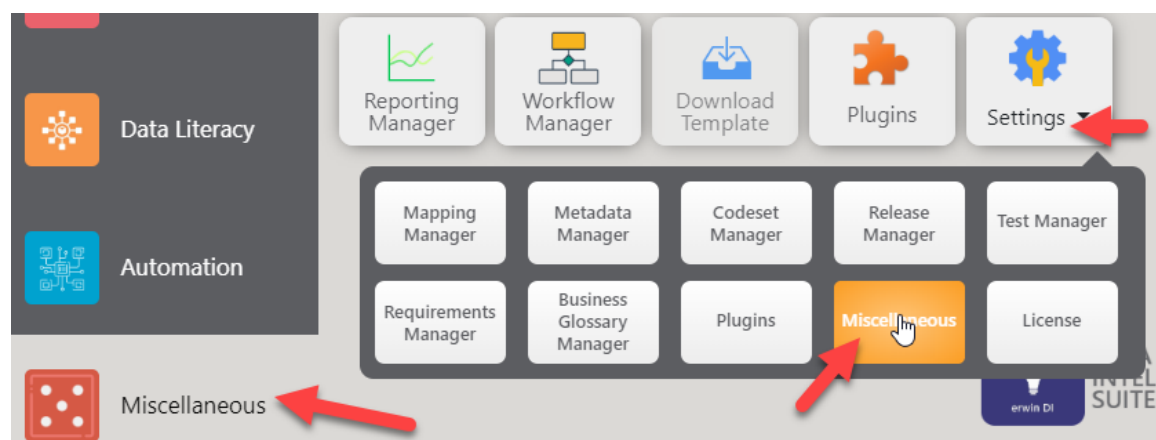
Right Click on the column headers of the Mapping Specification Data-Grid and select the user defined fields to be added to the grid layout. The newly added columns are added to the grid-layout and are available for use.

User Defined-1	User Defined-2	User Defined-3	User Defined-4	User Defined-5	User Defined-6	User Defined-7

### Customize the User Defined Flex fields

The User Defined fields in the mapping grid can be renamed to meet customer specifications.

To rename the fields, go into the Miscellaneous → Settings → Miscellaneous screen



Expand the “User Defined Flex Fields” node and then expand the “Mapping Grid” node

Key Description	ENGLISH
Mapping Manager	Mapping Manager
Workflow Status	Workflow Status
Environments	Environments
User Defined Flex Fields	User Defined Flex Fields
Subject Area	Subject Area
Table Metadata	Table Metadata
Mapping Tabs	Mapping Tabs
Column Metadata	Column Metadata
Mapping Grid	Mapping Grid
User Defined-48	User Defined-48
User Defined-41	User Defined-41
User Defined-23	User Defined-23
User Defined-8	User Defined-8
User Defined-31	User Defined-31
User Defined-40	User Defined-40

## 4.14 Define Key Values Pairs

A key-value pair (KVP) is an abstract data type that includes a group of key identifiers and a set of associated values. Key-value pairs are frequently used in lookup tables, hash tables and configuration files. EMM provides “**Extended properties**” tab to define name value pairs in Mapping Manager module at Project/Map level and in Metadata Manager Module at System/Environment/Table/Column level.

### Mapping Manager -

Click on the “Mapping Manager” icon the Icon Launcher Menu to access the Mapping Manager module.





**Project Level:** Click on the project node in the project browser. On right side window, you will be able to view “**Extended Properties**” tab to define the value pairs.



#	Project Name	Subject Hierarchy	Map Name	Lock Status	Locked By	Locked Date	Mapping State	Mapping Description
1	ADS_Data_Migration		CBA_Customers				In Progress	
2	ADS_Data_Migration		L_Customers				In Progress	
3	ADS_Data_Migration		L_Employees				In Progress	
4	ADS_Data_Migration		L_Invoices				In Progress	
5	ADS_Data_Migration		L_Products				In Progress	






#	Key	Value
	<input type="text"/>	<input type="text"/>

Click on Add icon add values.

Mapping Summary	Project Details	Project Documents	Project Users	Extended Properties	Demo Chat Version	Collaboration
<div>   </div>						
Key		Value				
<input type="text"/>		<input type="text"/>				
<input type="text"/>		<input type="text"/>				
<input type="text"/>		<input type="text"/>				
<input type="text"/>		<input type="text"/>				

Double click on the row to add new key and its associated value.

Mapping Summary	Project Details	Project Documents	Project Users	Extended Properties	Demo Chat Version	Collaboration
<div>   </div>						
Key		Value				
<input type="text"/>		<input type="text"/>				
<input type="text"/>		<input type="text"/>				
<input type="text"/>		<input type="text"/>				
<input type="text"/>		<input type="text"/>				
<input type="text"/>		<input type="text"/>				

Mapping Summary	Project Details	Project Documents	Project Users	Extended Properties	Demo Chat Version	Collaboration
<div>    <div style="float: right;">   </div> </div>						
#	Key	Value				
	<input type="text"/>	<input type="text"/>				
1	Age	45				
2	Company	AnalytiXDS				
3	First name	John				
4	Last name	Doe				

Once the values are entered, click on save icon "Project values are saved successfully" message is displayed and the defined key values are added to the grid.

Extended properties tab also provides an option to Import/Export the key values through excel sheet and edit or delete the existing key values.

## Map Level:

- ✓ Click on the project node in the project browser and select a Map within the specific project. In the Mapping Specification grid, select a row and right click to select “Extended Properties” option a popup window is displayed where you can add the Key values. Click save to continue the mapping.

The screenshot shows the 'Mapping Specification' window in the 'Graphical Designer' tab. On the left, the 'Workspace Mappings' tree is expanded to 'Mappings' > 'Projects' > 'ADS\_Data\_Migration (5)' > 'Mappings' > 'CBA\_Customers (v1.00)'. The main grid lists 6 mappings. A right-click context menu is open over row 6, with 'Extended Properties' highlighted. The menu options are: Font Color, Font Styles, Background Color, Font Size, Clear Formatting, Impact Analysis Report, Lineage Analyzer, Extended Properties, and Share Link.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale	Target Column Nullable Flag
1	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0	0	<input type="checkbox"/>
2	EDW	EDW-PRD	dbo.Customers	CompanyName	nvarchar	40	0	0	<input type="checkbox"/>
3	EDW	EDW-PRD	dbo.Custo			30	0	0	<input checked="" type="checkbox"/>
4	EDW	EDW-PRD	dbo.Custo			30	0	0	<input checked="" type="checkbox"/>
5	EDW	EDW-PRD	dbo.Custo			60	0	0	<input checked="" type="checkbox"/>
6	EDW	EDW-PRD	dbo.Custo			15	0	0	<input checked="" type="checkbox"/>

Summary: Total Rows: 13 | Target Tables: 2 | Source Tables: 2 | Targets Not Mapped: 0 | Sources Not Mapped: 0 | Business Rules: 0 | Possible Truncations: 2 | Look Ups: 0

The dialog box titled 'Mapping Specification - Extended Properties' contains a table with two columns: '# Key' and 'Value'. The table is currently empty. At the bottom, it shows 'No Records Found' and 'Page 1' with '10 rows per page'.

- ✓ Click on the project node in the project browser and select a Map within the specific project. You will then be able to view additional mapping information details, Click on “**Extended Properties**” tab to add new key values,

The screenshot shows the 'Mapping Specification' window. The 'Workspace Mappings' tree on the left is expanded to 'Mappings' > 'Projects' > 'ADS (1)' > 'Mappings' > 'Customer (v1.00)'. The main grid lists 3 mappings. Below the grid, the 'Additional Mapping Information' section is expanded, and the 'Extended Properties' tab is selected and circled in red. Below this tab is a table with two columns: '# Key' and 'Value'.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale
1	EDW	SQL Server	dbo.Customers	CustomerID	nchar	10		
2	EDW	SQL Server	dbo.Customers	CompanyName	nvarchar	40		
3	EDW	SQL Server	dbo.Customers	ContactName	nvarchar	30		

Summary: Records from 1 to 11 | Page 1 | 100 rows per page

Additional Mapping Information: User Defined1, User Defined2, User Defined3, User Defined4, User Defined5, **Extended Properties**, Test Specification



## 5. Performing Impact Analysis

The *Mapping Manager* supports impact analysis at the table, column and enterprise transformation level. This is particularly useful in assessing the impact of any global transformation change, source or target level changes and their impact any project and the number of mappings or load process that may be affected resulting from the change to a system, table or column in a table.

In this section, you will learn:

- Running the Impact Analysis Report (Table and Column Impact)
- Running the Impact Analysis (Enterprise Transformation Impact)

### 5.1 Running the Impact Analysis Report (Table and Column Impact)

From the metadata browser, navigate to a System and then to a particular table or column on which you would like to perform the impact Analysis on.

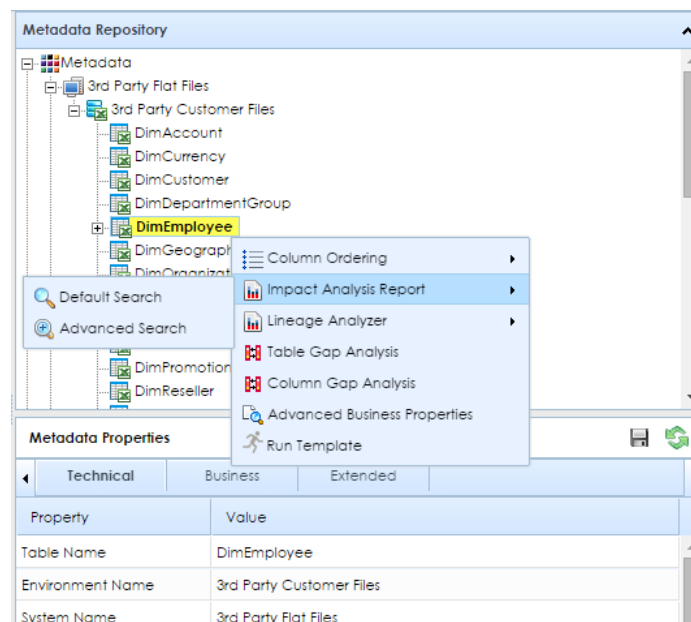
Right click on a particular table or column and select the “Impact Analysis Report” option. Then select “Default” Vs “Advanced” search options

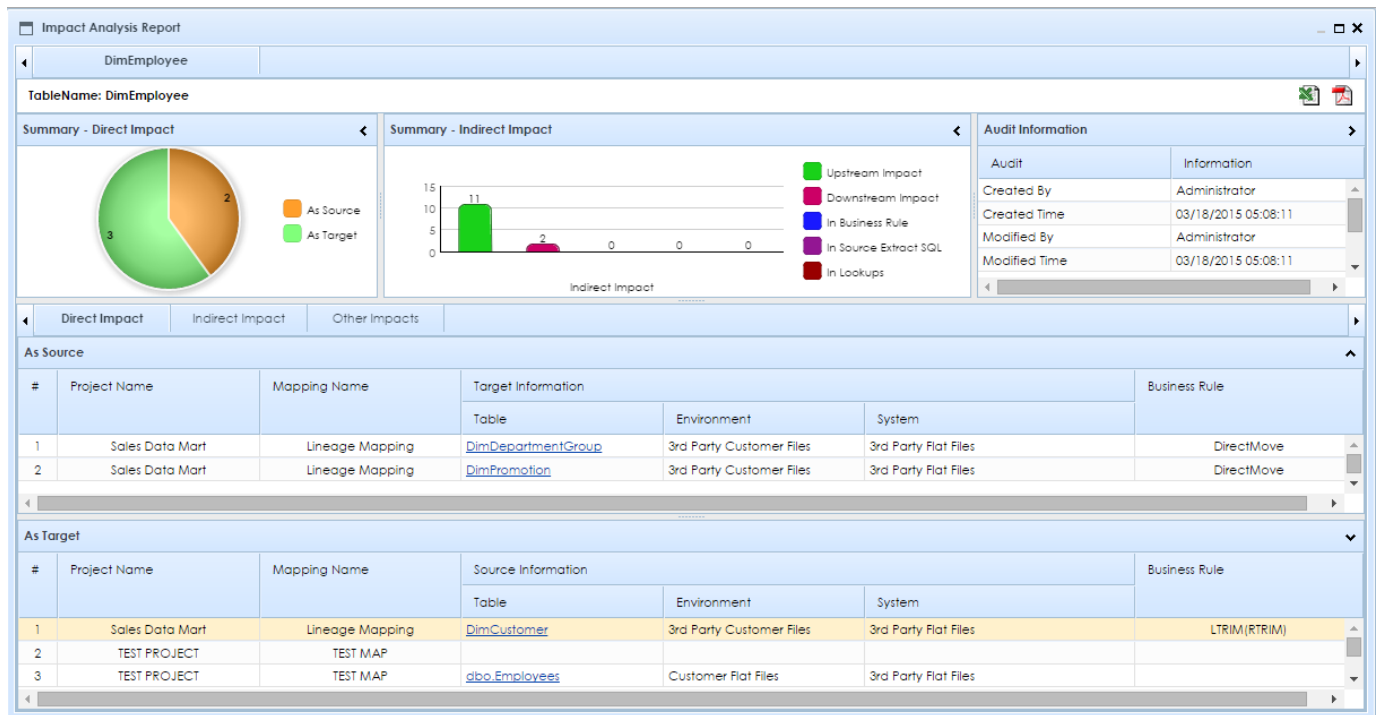
Your Impact Analysis Report is displayed and indicates where the data item is used.

Impact Analysis for Table/Column is checked against the following

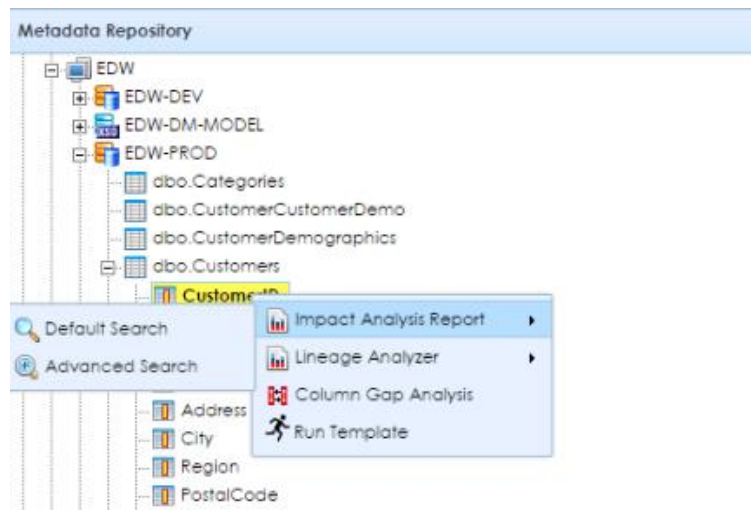
- ✓ Usage as Source
- ✓ Usage as Target
- ✓ Usage in Lookup conditions
- ✓ Usage in Source Extract SQL Query
- ✓ Usage in Business Rules

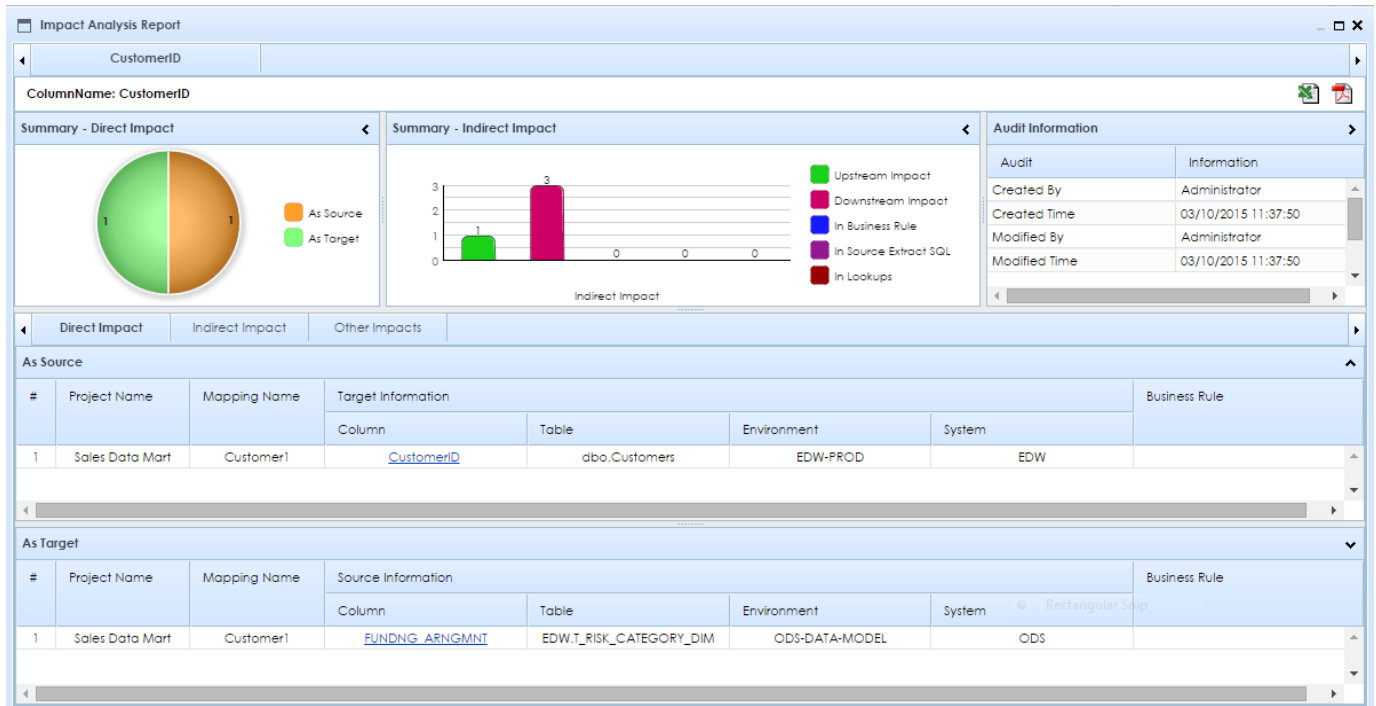
#### Impact Analysis report at Table level:





## Impact Analysis report at Column level:





**Note:** Table/Column usage as Source and Target is an exact search while usage in Lookups, Source Extract SQLs and Business Rules is a wildcard search (% search).

## Impact Analysis at Mapping Specification Grid:

You can also run the Impact analysis report from the Mapping Specification grid. Right click on the Target or Source table/column to the run the impact analysis as follows.

**Workspace Mappings**

**Mapping Specification**

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale
1	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0	0
2	EDW	EDW-PRD	dbo.Cus		var	40	0	0
3	EDW	EDW-PRD	dbo.Cus		var	30	0	0
4	EDW	EDW-PRD	dbo.Cus					
5	EDW	EDW-PRD	dbo.Cus					
6	EDW	EDW-PRD	dbo.Customers	City	nvarchar	15	0	0

**Additional Mapping Information**

Map Spec Overview | Graphical View | Source Extract SQL | Target Update Strategy | Testing Notes | Map Spec Docs | Assignment

Specification Name: C&A\_Customers

**Metadata Repository**

**Metadata Properties**

Property	Value
System Name	EDW
Environment Name	EDW-PRD
Table Name	dbo.Customers
Column Name	CustomerID
Column Data Type	nchar
Column Data Domain	
Column Length	10
Column Precision	0

## 5.2 Running the Impact Analysis Report (Transformation Impact)

Running impact analysis displays a report containing a list of projects and mapping specifications where the transformation is used across all enterprise projects

From the Mapping Manager's project browser select '**Transformations**'

Mapping Manager									
Transformation Details									
#	Transformation Name	Pseudocode	Intended Use	Scope	Created By	Created Date Time	Last Modified By	Last Modified Date Time	History
1	1- DataGov(HighDa	To_date(mm/dd/yyyy,12/31/9999)	DataGovernance rule - use on all projects		Administrato	02/27/2014 05:05:41	Administrato	02/27/2014 05:05:41	
2	2- DataGov(LowDa	To_date(mm/dd/yyyy, 01/01/0001)	DataGovernance rule - use on all projects		Administrato	02/27/2014 05:05:41	Administrato	02/27/2014 05:05:41	
3	3- DataGov(Average	Count(Active customer)/(Count of Canceled Customers for current month)	DataGovernance rule - use on all projects where financial reports are viewed and Churn KPIs are used.		Administrato	02/27/2014 05:05:41	Administrato	02/27/2014 05:05:41	
4	ABORT	ABORT	ETL Built-in Transformation: Record handling and processing rule for all projects		Administrato	02/27/2014 05:05:41	Administrato	02/27/2014 05:05:41	
5	ABS	ABS	ETL Built-in Transformation: Record handling and processing rule for all projects		Administrato	02/27/2014 05:05:41	Administrato	02/27/2014 05:05:41	
6	ADD_TO_DATE	ADD_TO_DATE	ETL Built-in Transformation: Record handling and processing rule for all projects		Administrato	02/27/2014 05:05:41	Administrato	02/27/2014 05:05:41	
7	AES_DECRYPT		ETL Built-in Transformation: Record handling and processing rule for all projects		Administrato	02/27/2014 05:05:41	Administrato	02/27/2014 05:05:41	

### 5.3 Running the Lineage Analyzer on Metadata Table – Forward and Reverse lineage

You can run the Lineage Analyzer (Forward, Reverse and Dual lineages) on a particular Table from the metadata browser to determine the upstream and downstream dependencies.

From the Mapping Manager's Metadata Browser navigate to the **System >> Table** on which you would like to run the lineage analysis on.

#### Forward Lineage:

Right Click and Select 'Lineage Analyzer —> Forward' option

#### Reverse Lineage:

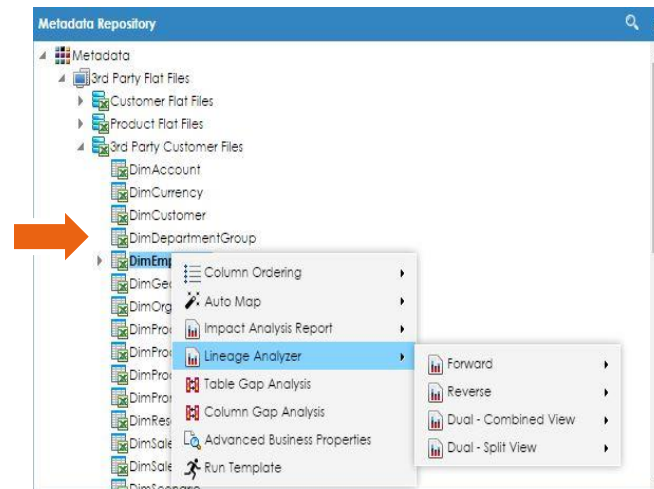
Right Click and Select 'Lineage Analyzer —> Reverse' option

#### Dual – Combined View:

Right click and select 'Lineage Analyzer —> Combined' view option

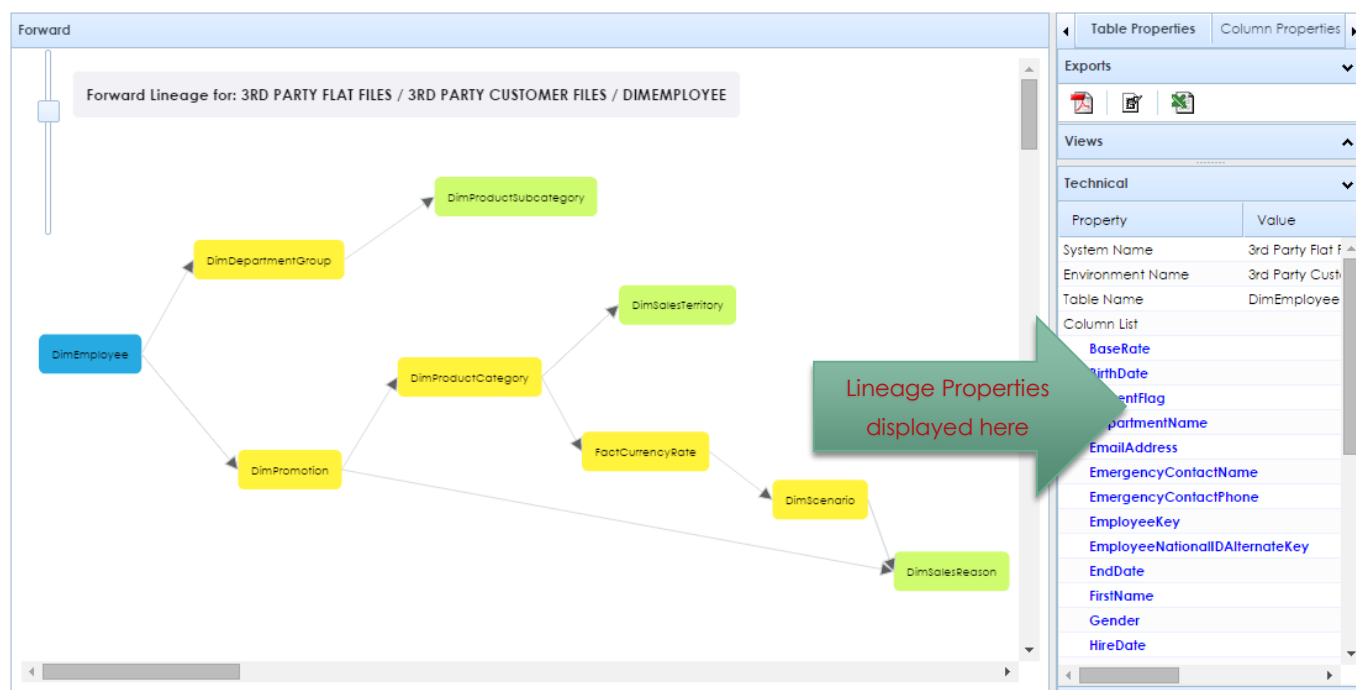
#### Dual – Split View:

Right click and select 'Lineage Analyzer —> 'Dual-Split' option



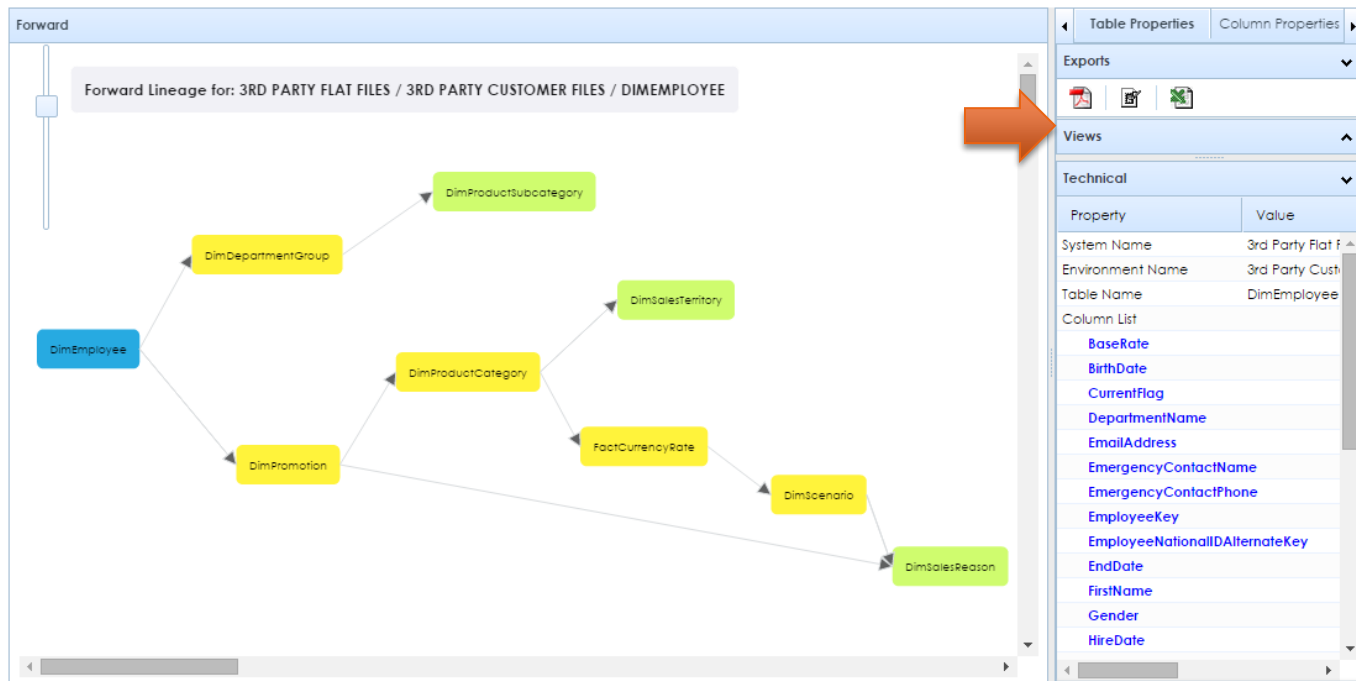
In the Metadata repository, you can run the Lineage Analyzer (Forward, Reverse, Dual lineages) on a particular Table/Column from the System Catalogue browser to determine the upstream and downstream dependencies.

### Forward Lineage:



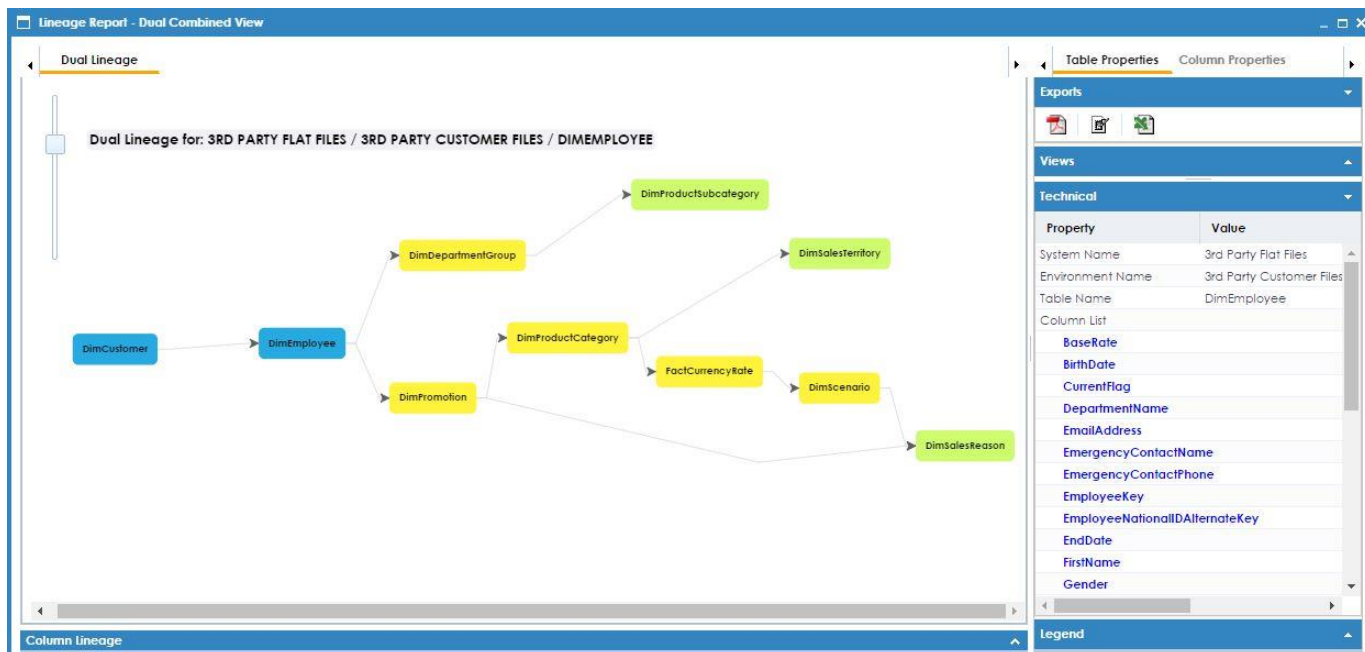
The starting Source is displayed in a BLUE BOX while the ending targets are displayed in a GREEN BOX with all the intermediate hubs being displayed in YELLOW BOXES.

To view the lineage properties, double click on the immediate TARGET i.e. YELLOW and GREEN boxes and all related Business, Technical and Transformation related information can be viewed in the accordion section to the right hand side of your lineage window.



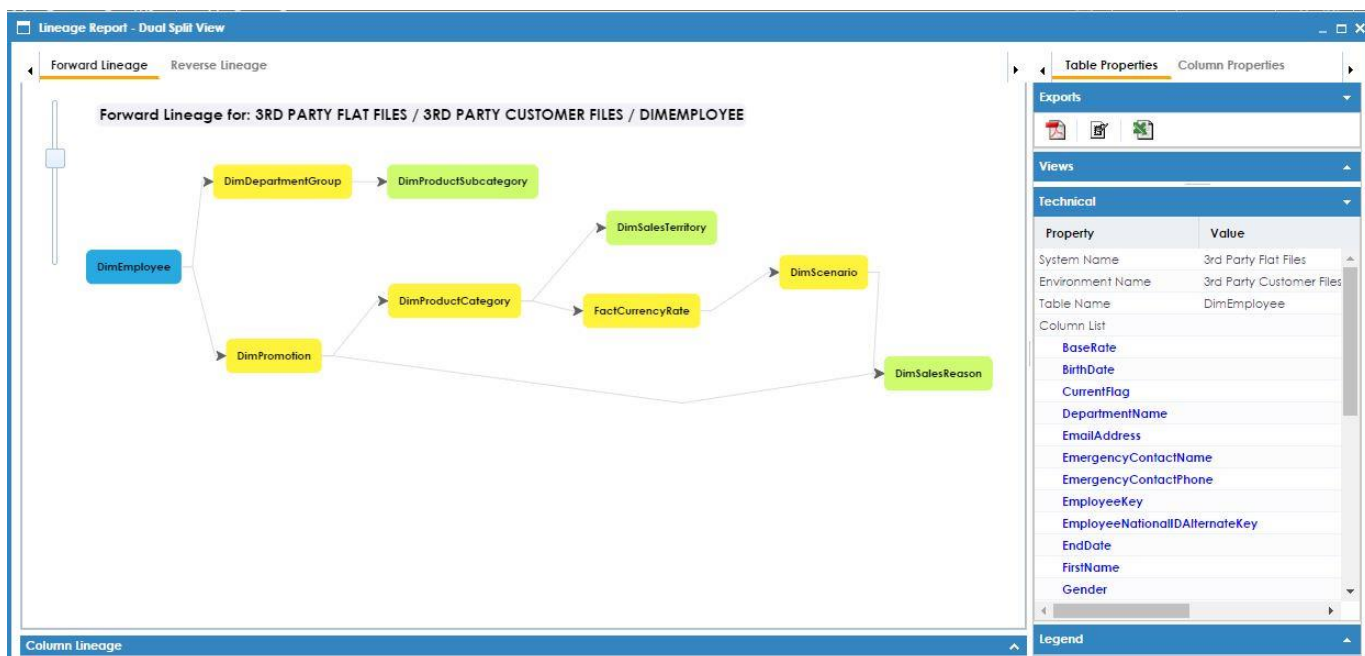
## Dual – Combined View:

Right click and select 'Lineage Analyzer → 'Dual – Combined' view option



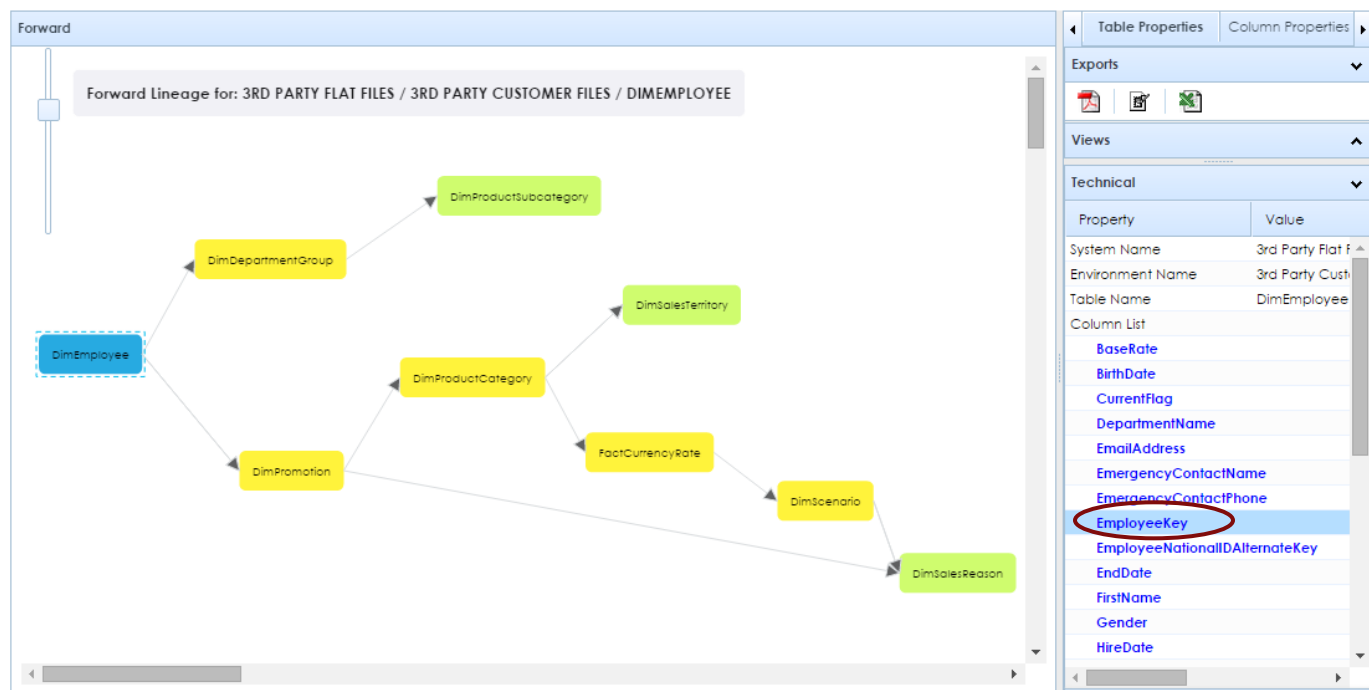
## Dual – Split View:

Right click and select 'Lineage Analyzer → 'Dual-Split' option





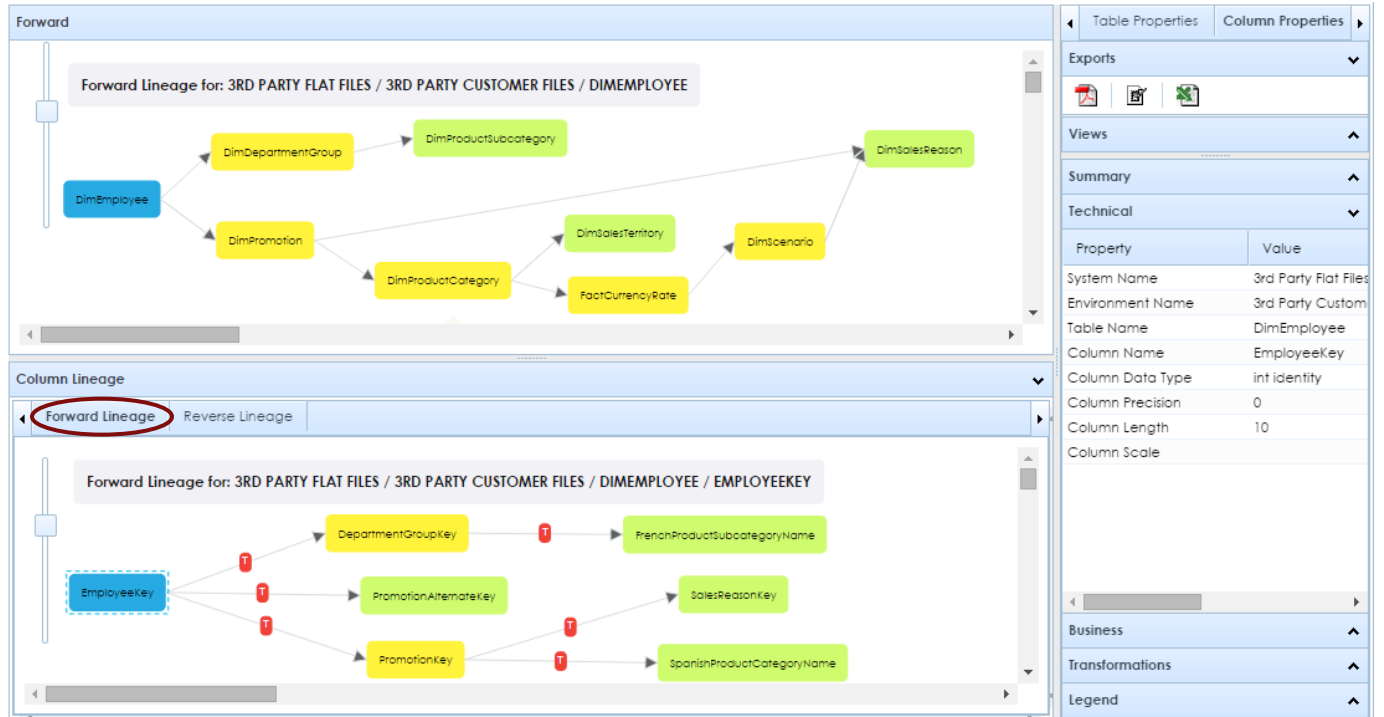
Double click on Table **DIMEMPLOYEE** and all its related columns are displayed on the right side under Table properties tab. Now to view column lineage specific, double click the column on which you want to run lineage from the columns list.



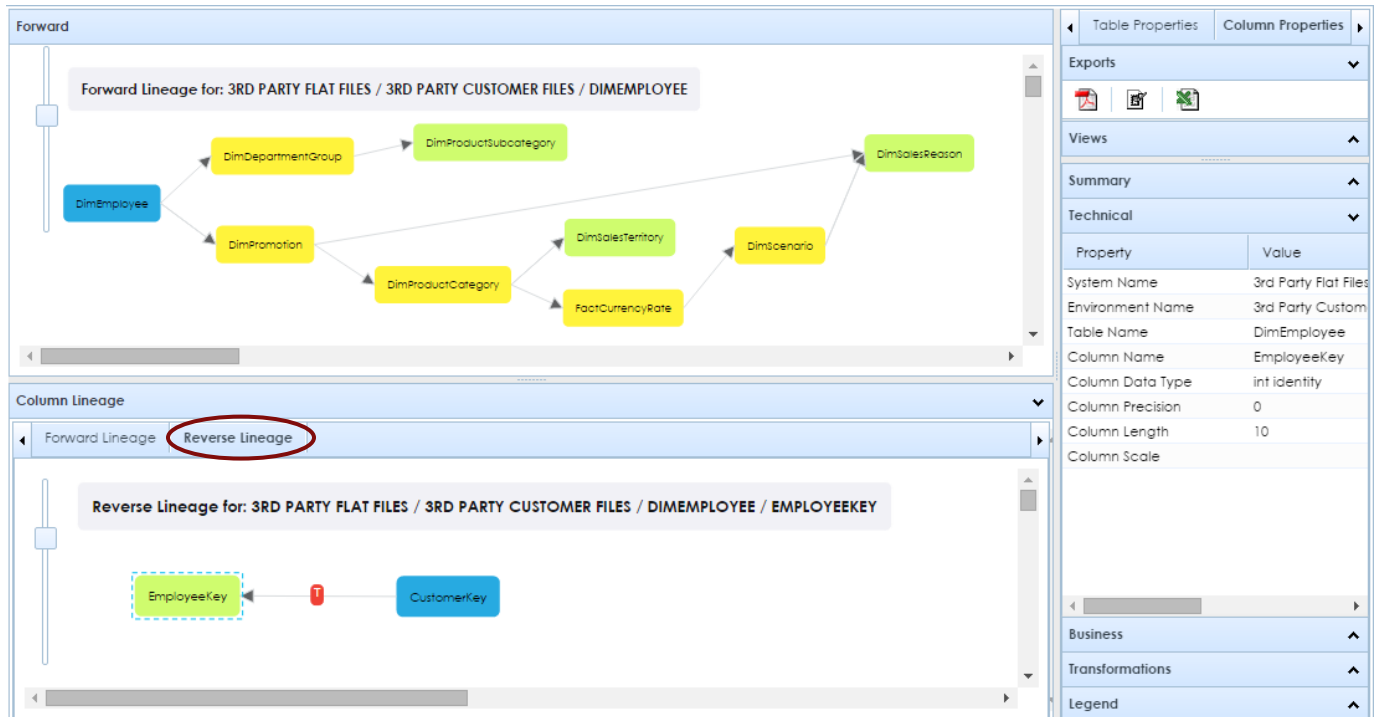
Double click on the selected column “**Employee Key**”, displays the corresponding forward and reverse lineage specific the column.



## Column level – Forward lineage



## Column level – Reverse lineage

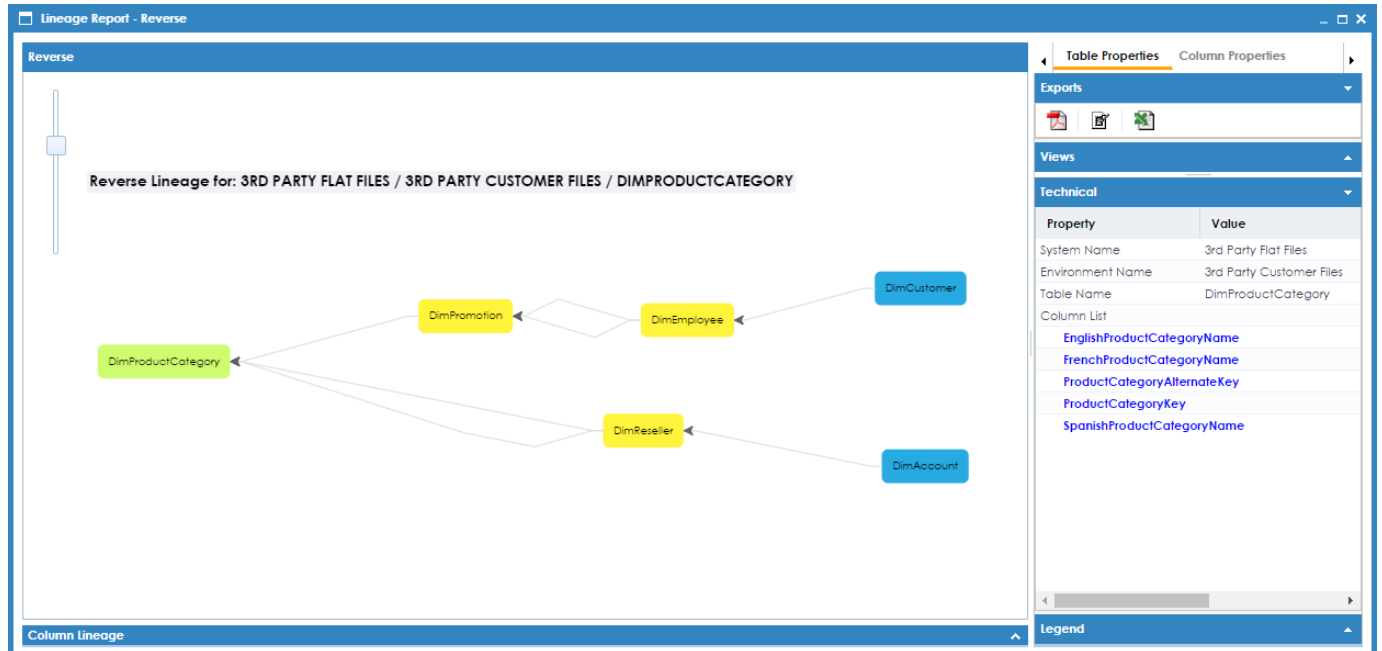




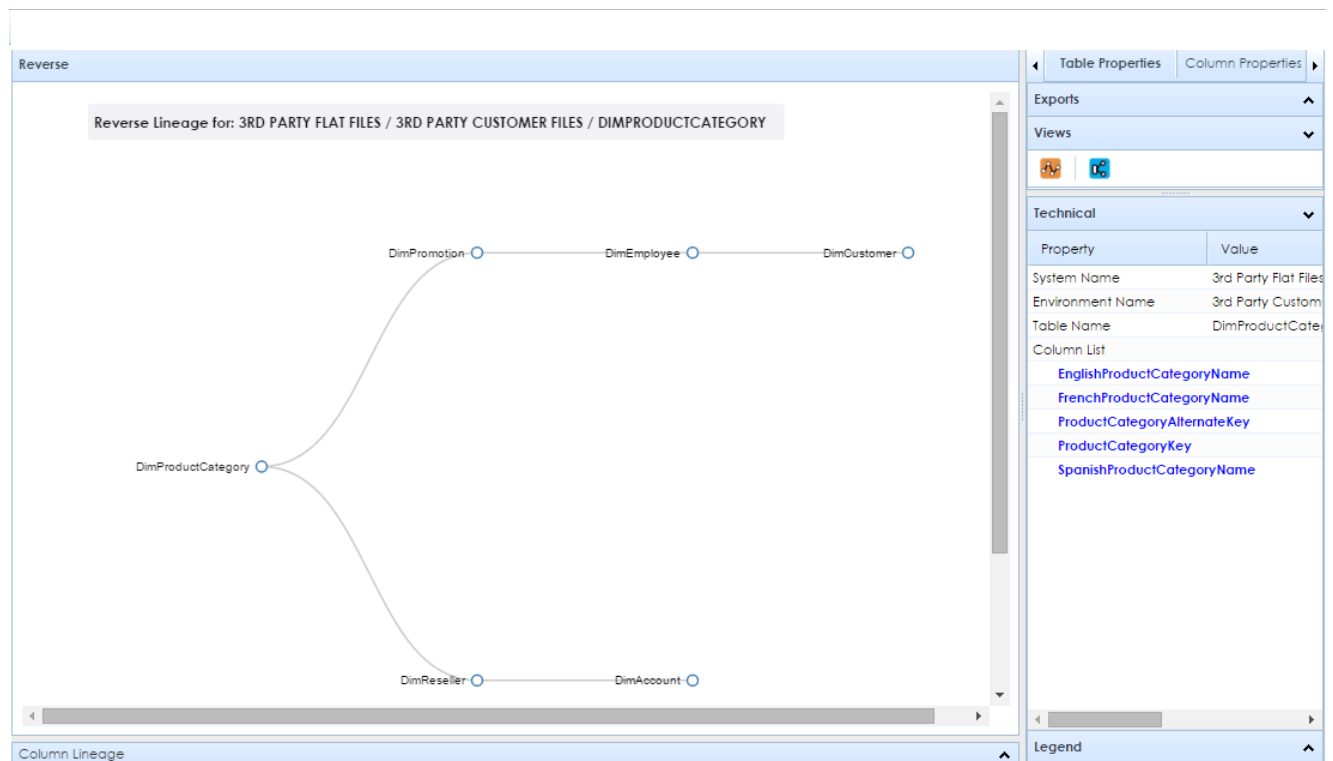
## Reverse Lineage at Table Level:

Reverse lineage also works in the same way as forward lineage and you can view its corresponding column lineage by double clicking on the table and its associated columns.

## Grid view:

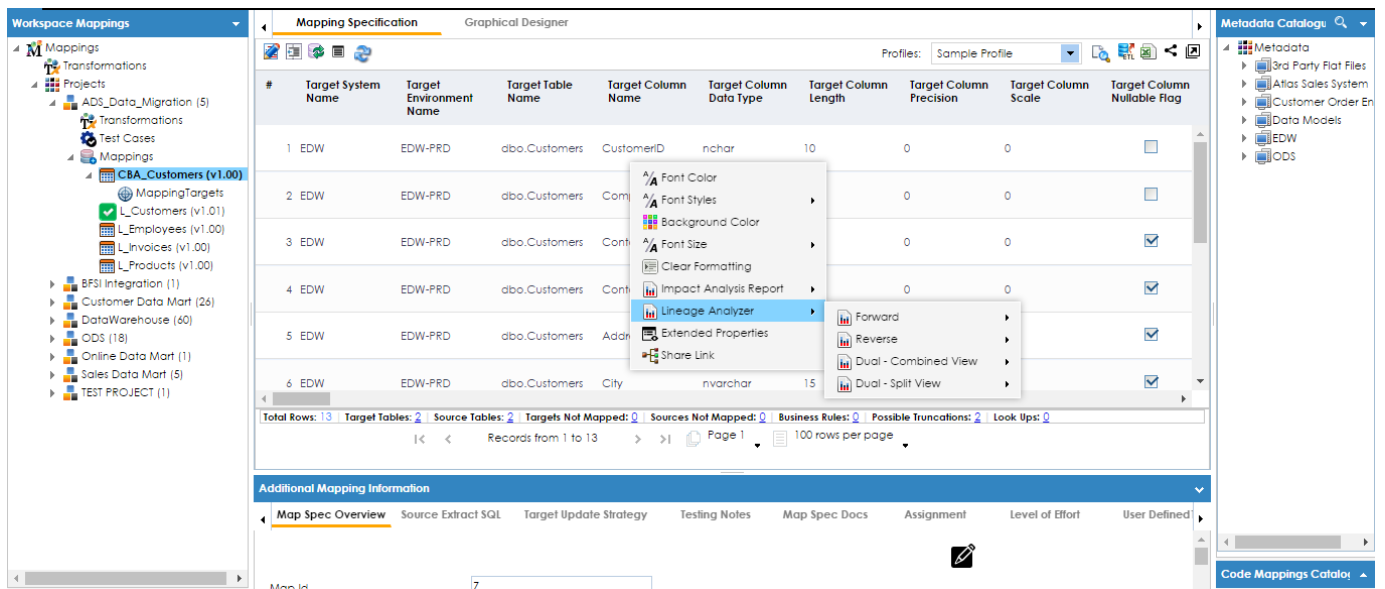


## Tree View:



## Running Lineage report at Mapping Specification grid:

Click on a Map and under mapping specification grid, Right click on the Target or Source table/column to the run the forward, reverse lineage with Dual combined/split view as follows.



## 5.4 Running the Lineage Analyzer on Metadata Columns - Forward and Reverse lineage

You can run the Lineage Analyzer (Forward, Reverse and Dual lineages) on a particular column from the metadata browser to determine the upstream and downstream dependencies.

From the Mapping Manager's Metadata Browser navigate to the **System >> Table >> Column** on which you would like to run the lineage analysis on.

### Forward Lineage:

Right Click and Select 'Lineage Analyzer —> Forward' option

### Reverse Lineage:

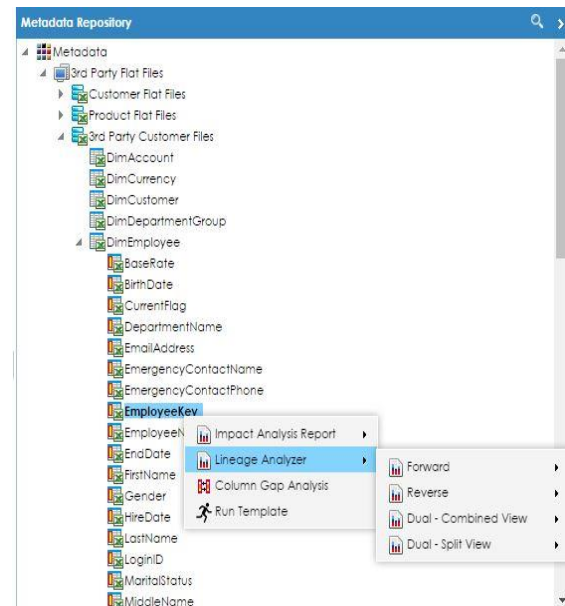
Right Click and Select 'Lineage Analyzer —> Reverse' option

### Dual Combined view:

Right click and select 'Lineage Analyzer —> 'Dual combined view''

### Dual Split view:

Right click and select 'Lineage Analyzer —> 'Dual Split view''



Lineage can be executed against the mappings in all projects or specific projects based on the filter selected.

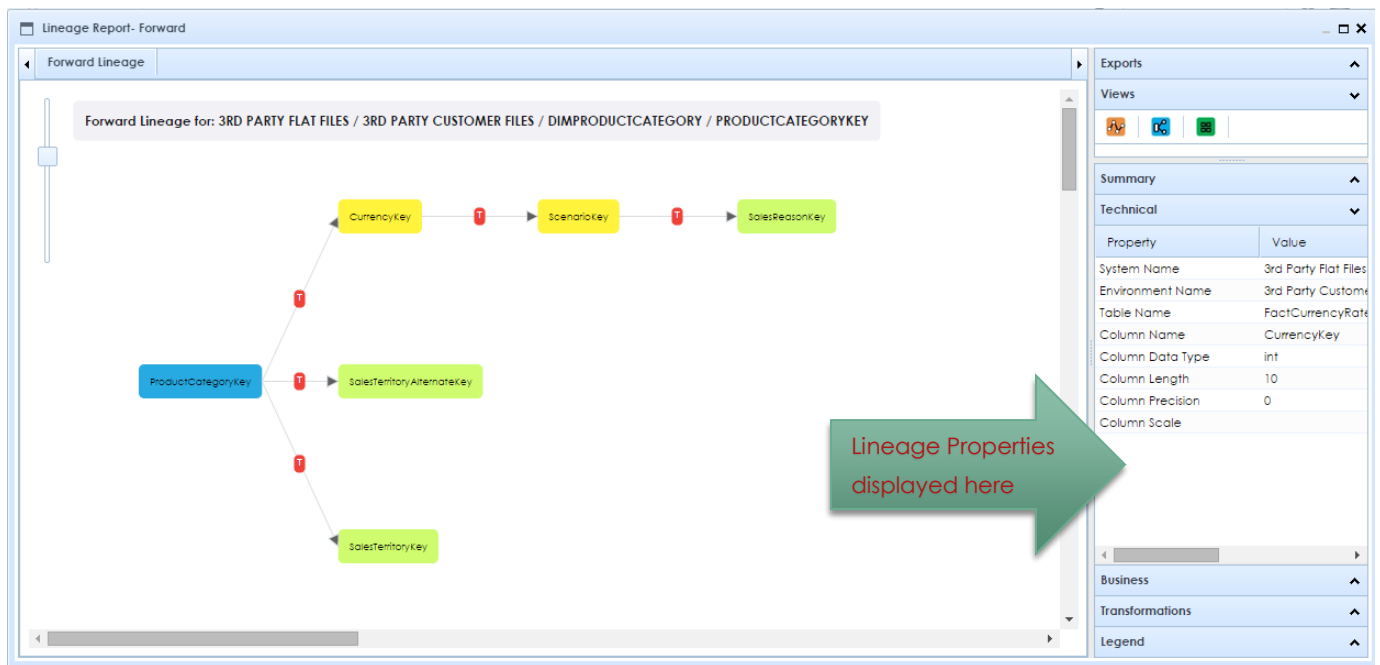
The Lineage Analysis report is displayed. This report can be exported to PDF, RTF, and JPG formats.

## COLUMN LEVEL

### FORWARD LINEAGE:

The forward lineage shows you all lineage starting with the selected column as the source and all its corresponding targets and the final targets for each of the intermediate hubs.

To view the lineage for a specific column, click on the column in the 'System Catalogue' tree and go into the "Forward Lineage" tab.



In the Screenshot above, FORWARD LINEAGE is being run on the column "PRODUCT CATEGORY KEY". This column "PRODUCT CATEGORY KEY" is being mapped to three different columns "CURRENTKEY", "SALESTERITORYALERNATEKEY", "SALESTERITORYKEY" and CURRENTKEY is then being mapped to "SCENARIOKEY" which in turn is being mapped to "SALESREASONKEY" which is the final destination.

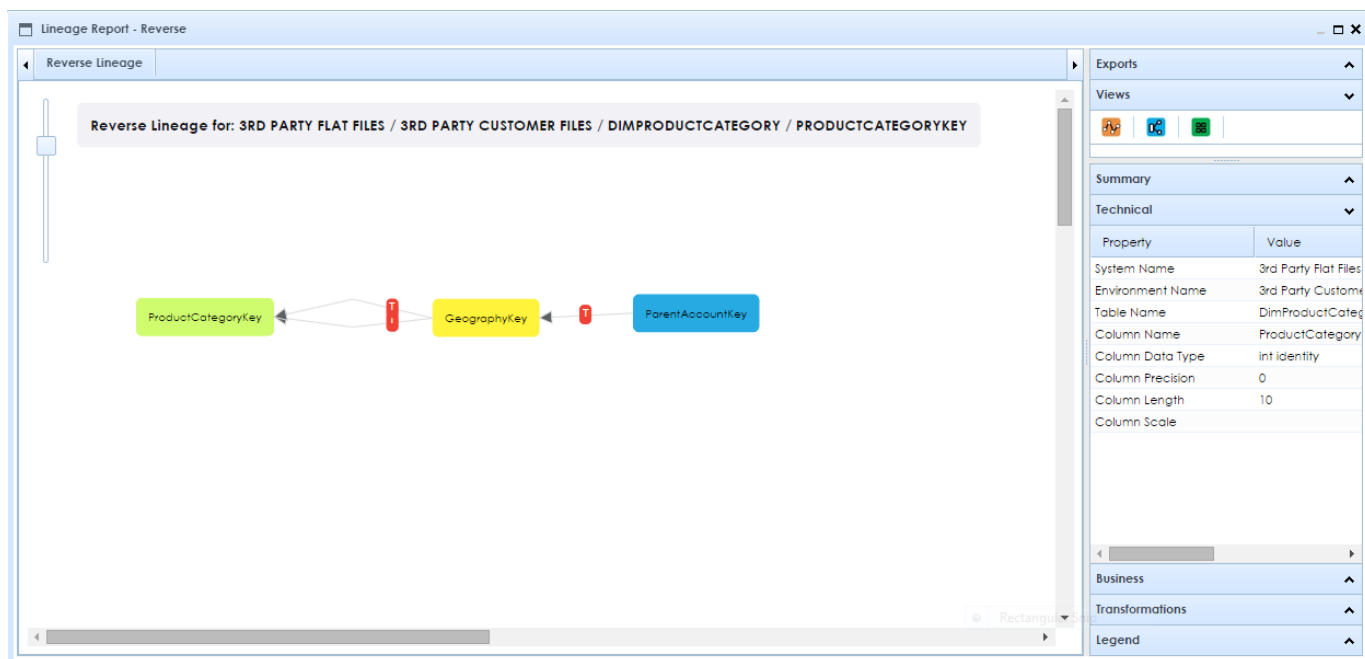
The starting Source is displayed in a BLUE BOX   while the ending targets are displayed in a GREEN BOX   with all the intermediate hubs being displayed in YELLOW BOXES  .

To view the lineage properties, double click on the immediate TARGET i.e. YELLOW and GREEN boxes and all related Business, Technical and Transformation related information can be viewed in the accordion section to the right hand side of your lineage window and you can also have a view other two layouts same as Table level forward lineage.

## REVERSE LINEAGE:

The forward lineage shows you all lineage starting with the selected column as the source and all its corresponding targets and the final targets for each of the intermediate hubs.

To view the reverse lineage for a specific column, click on the column in the 'System Catalogue' tree and go into the "Reverse Lineage" tab.

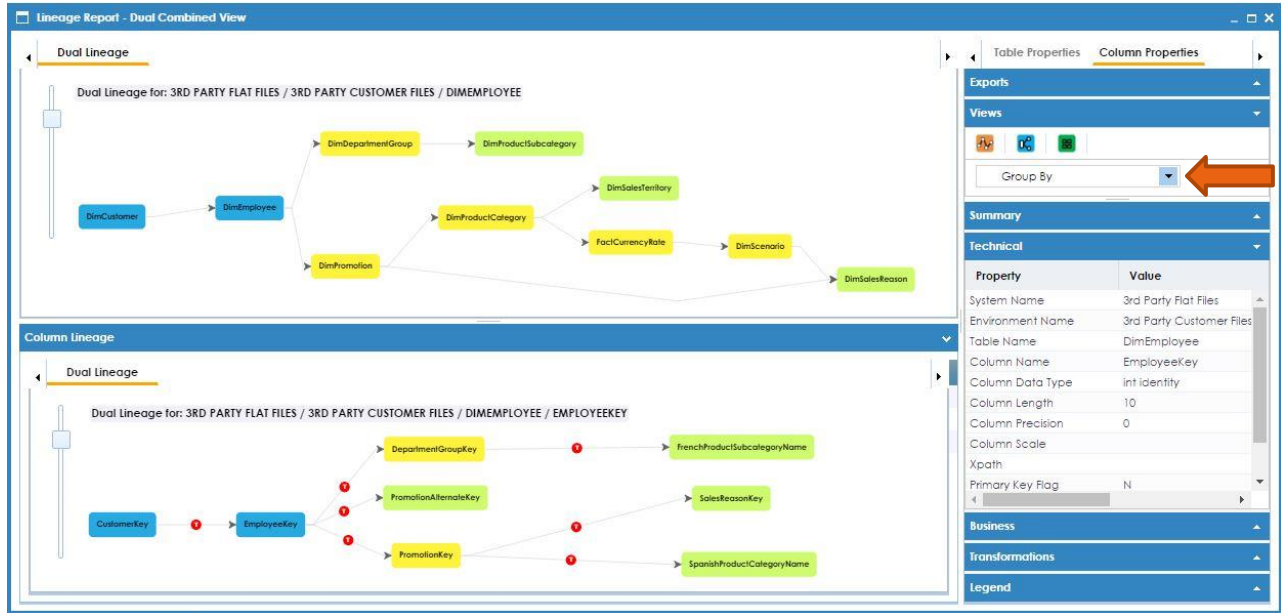


In the Screenshot below, REVERSE LINEAGE is being run on the column "PRODUCTCATEGORYKEY". This column "PRODUCTCATEGORYKEY" is being sourced by one different column "GEOGRAPHYKEY". "GEOGRAPHYKEY" is in turn being sourced by "PARENTACCOUNTKEY".

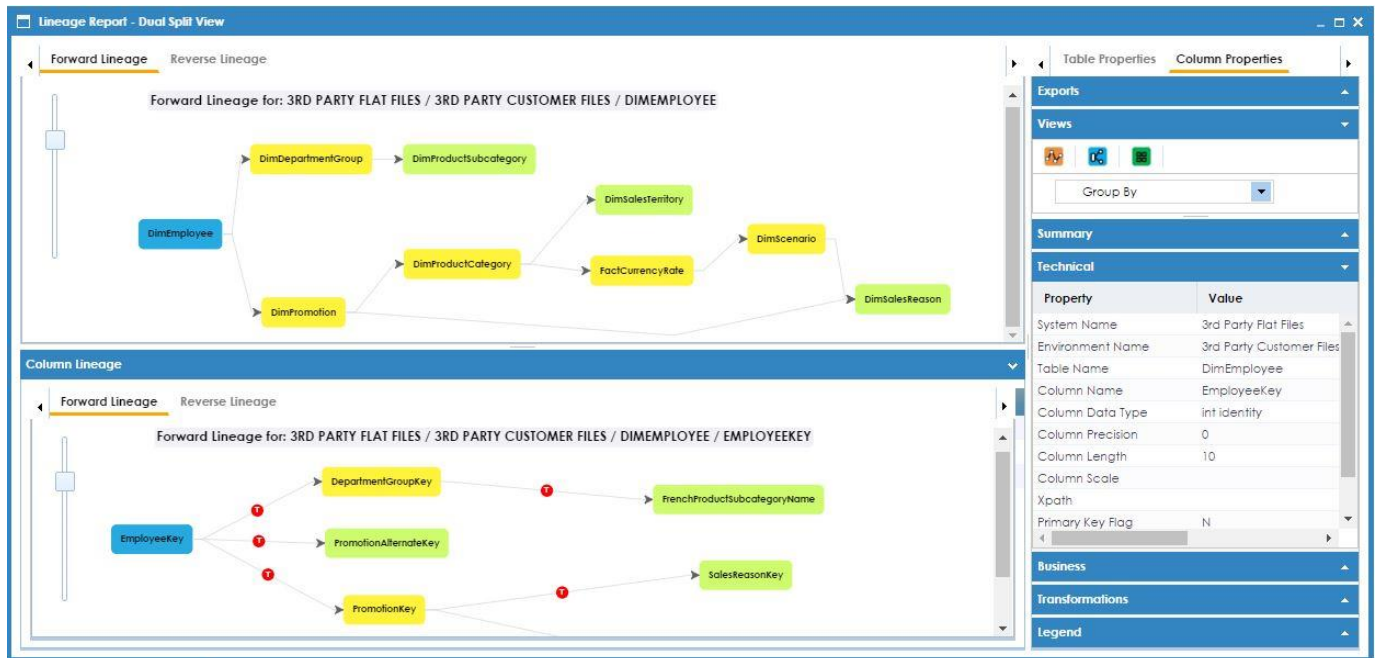
The ending TARGET is displayed in a GREEN BOX while the starting sources are displayed in BLUE BOXES with all the intermediate hubs being displayed in YELLOW BOXES.

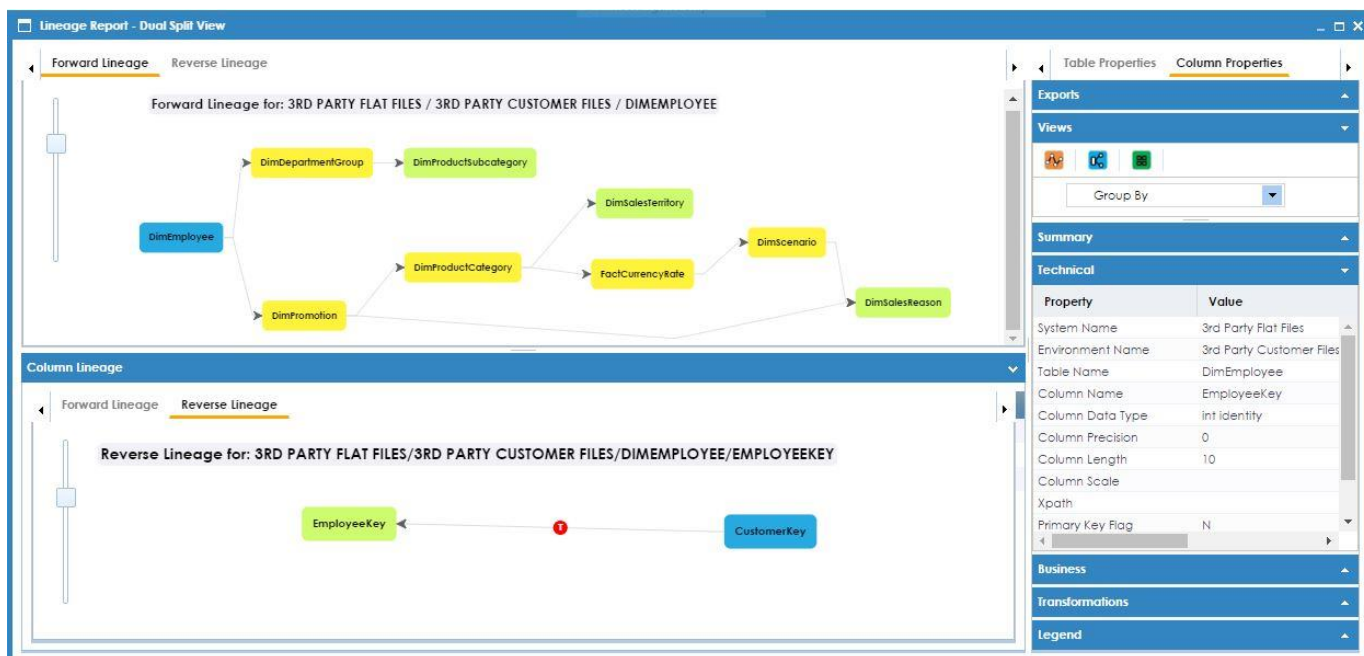
To view the lineage properties, double click on the immediate TARGET i.e. YELLOW and GREEN boxes and all related Business, Technical and Transformation related information can be viewed in the accordion section to the right hand side of your lineage window.

## Dual Combined View:

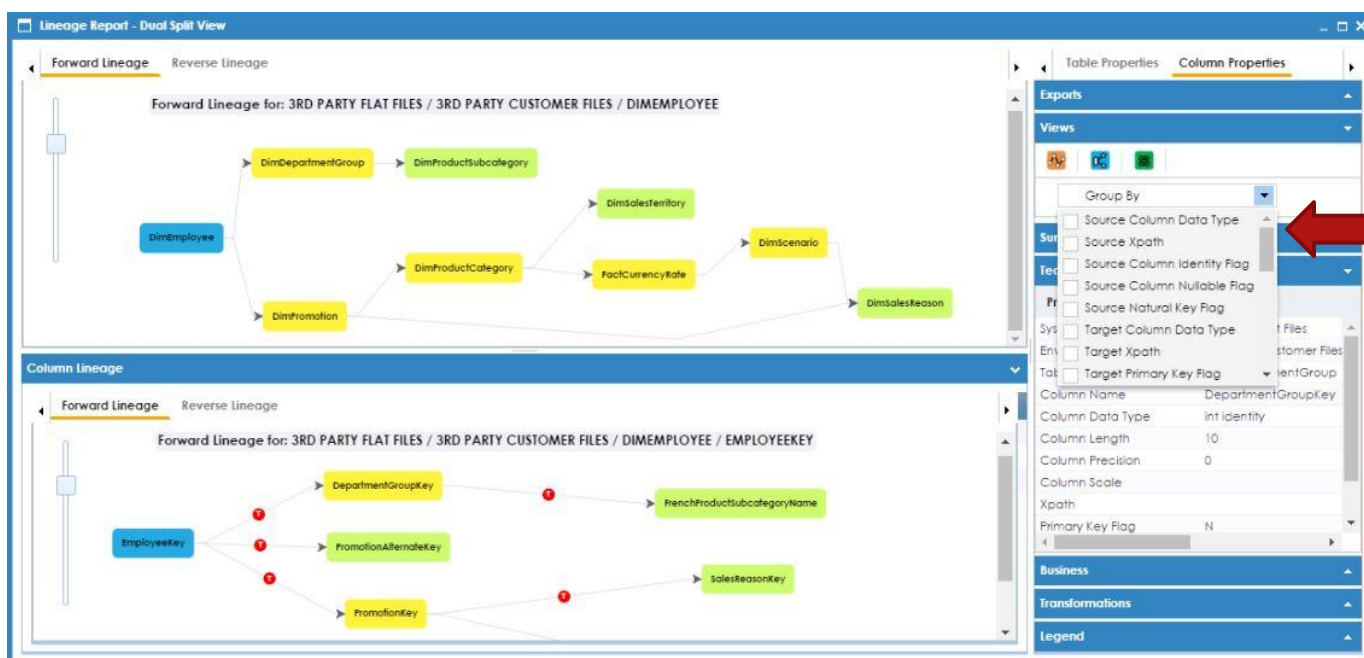


## Dual Split View:





This new “Group By” feature lets you breakdown the generated lineage diagram and group relevant information based on specific columns. E.g. group all source columns based on a certain data type, group source columns relevant to a specific Xpathvalue etc.



To view the lineage in different formats, click on “**Views**” on the right side section and Click on the desired icon to see the lineage as per the required format.

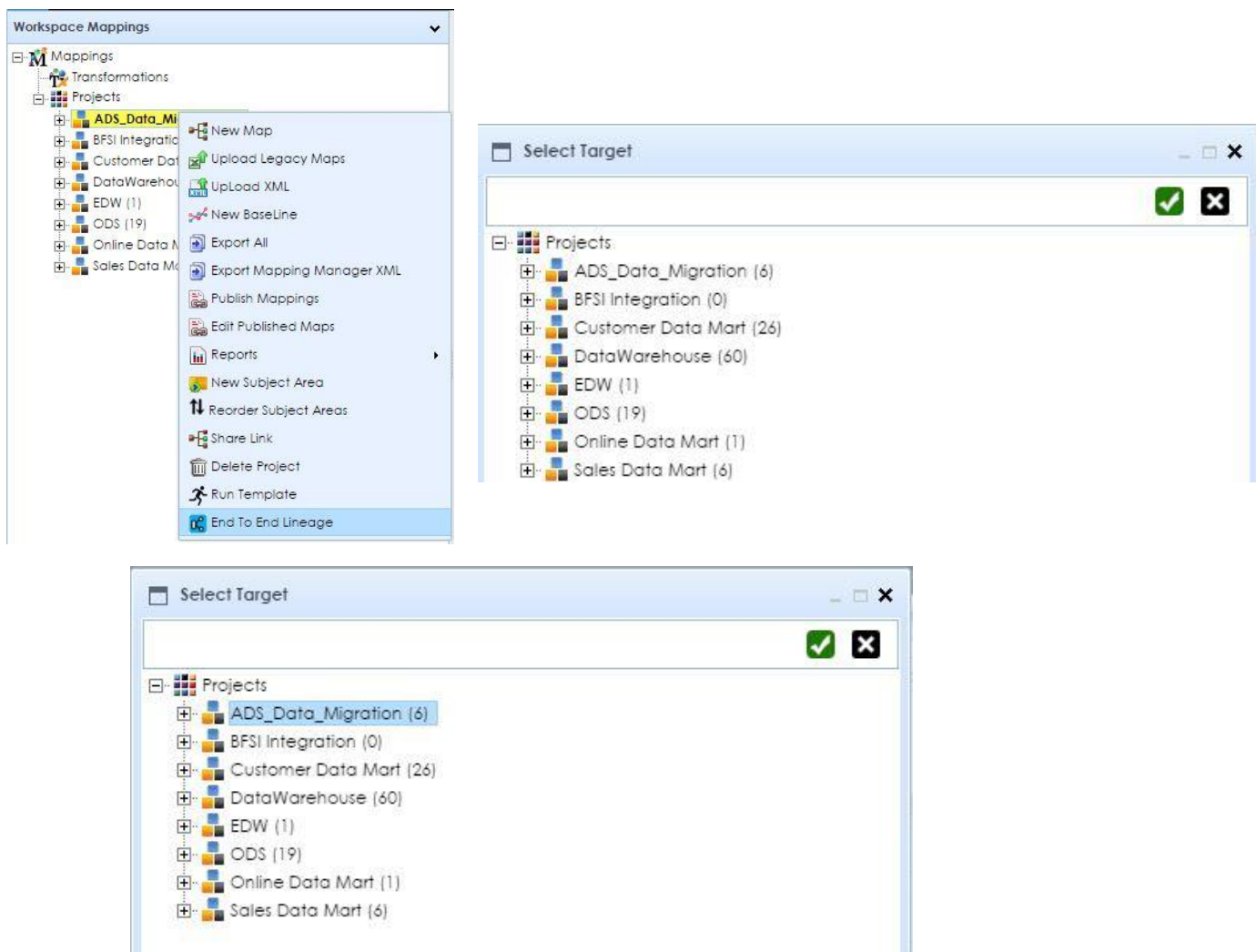
## 5.4 Running End To End Lineage Analyzer

End – End Lineage generates the Start and End points to identify data flow across systems and drill down to relevant hops in between to get the full lineage view with transformation rules.

The Mapping Manager module allows you to run the End – End lineage at Project and Map level.

### End – End Lineage at Project Level:

Go to Mapping Manager module and Right click on any specific project and select **End To End Lineage** option to run the lineage.



Select any specific project and click on  to generate the End to End lineage report

End to End Lineage summary is generated with Start and End points to identify data flow across systems and drill down to relevant hops in between to get the full lineage view with transformation rules,

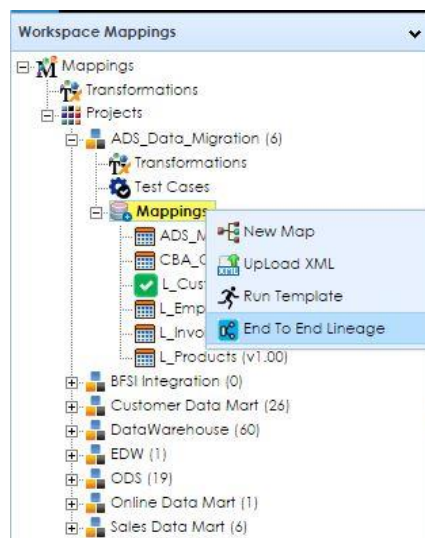


You can reset the existing “Column ordering” and also have an ability to “Export to excel”.

End To End Lineage Summary												
#	Source Project	Source Subject	Source System	Source Environment	Source Table	Source Column	Source User Defined-1	Source User Defined-2	Target Column	Target User Defined-1	Target User Defined-2	Target Table
1	ADS_Data_Migr		3rd Party Flat Files	Customer Flat Files	dbo.Customers	Address			Address			dbo.Customers
2	ADS_Data_Migr		3rd Party Flat Files	Product Flat Files	dbo.Customers	Address			Address			dbo.Customers
3	ADS_Data_Migr		3rd Party Flat Files	Customer Flat Files	dbo.Employees	Address			Address			dbo.Employees
4	ADS_Data_Migr		3rd Party Flat Files	Customer Flat Files	dbo.Invoices	Address			Address			dbo.Invoices
5	ADS_Data_Migr		3rd Party Flat Files	Customer Flat Files	dbo.Employees	BirthDate			BirthDate			dbo.Employees
6	ADS_Data_Migr		3rd Party Flat Files	Customer Flat Files	dbo.Products	CategoryID			CategoryID			dbo.Products
7	ADS_Data_Migr		3rd Party Flat Files	Customer Flat Files	dbo.Customers	City			City			dbo.Customers
8	ADS_Data_Migr		3rd Party Flat Files	Product Flat Files	dbo.Customers	City			City			dbo.Customers
9	ADS_Data_Migr		3rd Party Flat Files	Customer Flat Files	dbo.Employees	City			City			dbo.Employees
10	ADS_Data_Migr		3rd Party Flat Files	Customer Flat Files	dbo.Invoices	City			City			dbo.Invoices
11	ADS_Data_Migr		3rd Party Flat Files	Customer Flat Files	dbo.Customers	CompanyName			CompanyName			dbo.Customers
12	ADS_Data_Migr		3rd Party Flat Files	Product Flat Files	dbo.Customers	CompanyName			CompanyName			dbo.Customers
13	ADS_Data_Migr		3rd Party Flat Files	Customer Flat Files	dbo.Customers	ContactName			ContactName			dbo.Customers
14	ADS_Data_Migr		3rd Party Flat Files	Product Flat Files	dbo.Customers	ContactName			ContactName			dbo.Customers

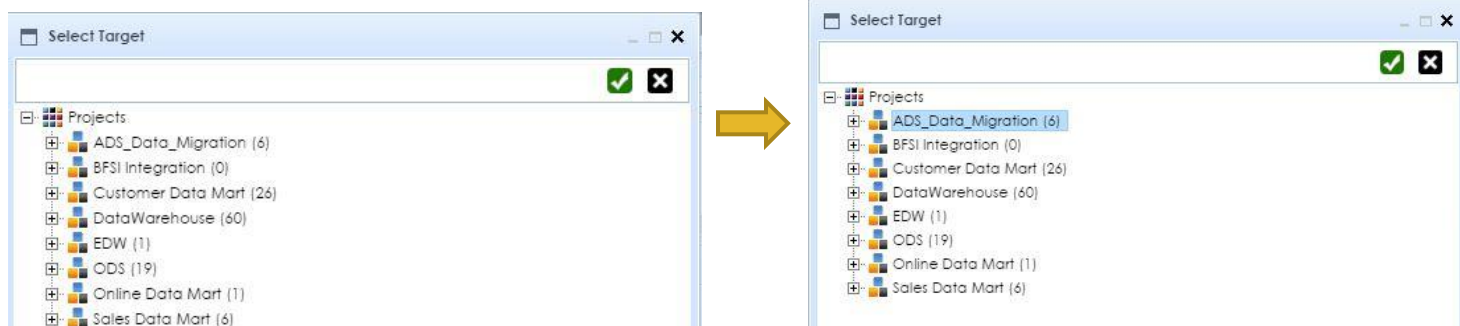
## End – End Lineage at Mapping Level:

Go to Mapping Manager module, select a specific project and Right click on Mappings node to run **End to End Lineage** summary.





Go to select any specific project or subject area to run the lineage.



End To End Lineage Summary

#	Source Project	Source Subject	Source System	Source Environment	Source Table	Source Column	Source User Defined-1	Source User Defined-2	Target Column	Target User Defined-1	Target User Defined-2	Target Table
1	ADS_Data_Migr	3rd Party Flat Files	Customer Flat Files	Customer Flat Files	dbo.Customers	Address			Address			dbo.Customers
2	ADS_Data_Migr	3rd Party Flat Files	Product Flat Files	Product Flat Files	dbo.Customers	Address			Address			dbo.Customers
3	ADS_Data_Migr	3rd Party Flat Files	Customer Flat Files	Customer Flat Files	dbo.Employees	Address			Address			dbo.Employees
4	ADS_Data_Migr	3rd Party Flat Files	Customer Flat Files	Customer Flat Files	dbo.Invoices	Address			Address			dbo.Invoices
5	ADS_Data_Migr	3rd Party Flat Files	Customer Flat Files	Customer Flat Files	dbo.Employees	BirthDate			BirthDate			dbo.Employees
6	ADS_Data_Migr	3rd Party Flat Files	Customer Flat Files	Customer Flat Files	dbo.Products	CategoryID			CategoryID			dbo.Products
7	ADS_Data_Migr	3rd Party Flat Files	Customer Flat Files	Customer Flat Files	dbo.Customers	City			City			dbo.Customers
8	ADS_Data_Migr	3rd Party Flat Files	Product Flat Files	Product Flat Files	dbo.Customers	City			City			dbo.Customers
9	ADS_Data_Migr	3rd Party Flat Files	Customer Flat Files	Customer Flat Files	dbo.Employees	City			City			dbo.Employees
10	ADS_Data_Migr	3rd Party Flat Files	Customer Flat Files	Customer Flat Files	dbo.Invoices	City			City			dbo.Invoices
11	ADS_Data_Migr	3rd Party Flat Files	Customer Flat Files	Customer Flat Files	dbo.Customers	CompanyName			CompanyName			dbo.Customers
12	ADS_Data_Migr	3rd Party Flat Files	Product Flat Files	Product Flat Files	dbo.Customers	CompanyName			CompanyName			dbo.Customers
13	ADS_Data_Migr	3rd Party Flat Files	Customer Flat Files	Customer Flat Files	dbo.Customers	ContactName			ContactName			dbo.Customers
14	ADS_Data_Migr	3rd Party Flat Files	Product Flat Files	Product Flat Files	dbo.Customers	ContactName			ContactName			dbo.Customers

Records from 1 to 50 Page 1 50 rows per page

You can reset the existing "Column ordering" and also have an ability to "Export to excel".

## 6. Exporting Mapping Specifications

The mapping manager allows mappings to be exported as MS Excel files at the individual mapping specification level and at the project level

In this section, you will learn:

- Export an Individual Mapping Specification
- Export all Mapping Specifications at the Project level
- Export Mapping Specification in EMM specific XML format
- Export Mapping Specification as XML/DTSX files to ETL Tools (Informatica, Datastage and SSIS)

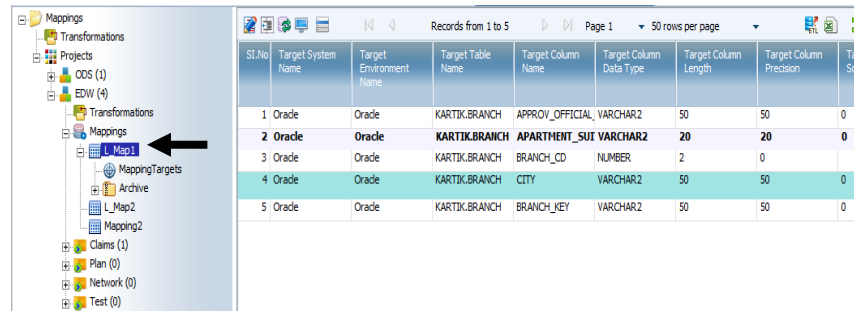
## 6.1 Export an Individual Mapping Specification

Select a Mapping Specification. You can export the mapping to excel by clicking the Excel export icon on the Mapping Specification Grid.

On clicking the Excel export icon, a dialog box opens that allows the user to select the export option

1. Export All columns
2. Export only those columns that have been customized by the user in the grid.

Select the required option and click the export icon.



Sl.No	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale
1	Oracle	Oracle	KARTIK.BRANCH	APPROV_OFFICIAL	VARCHAR2	50	50	0
2	Oracle	Oracle	KARTIK.BRANCH	APARTMENT_SUI	VARCHAR2	20	20	0
3	Oracle	Oracle	KARTIK.BRANCH	BRANCH_CD	NUMBER	2	0	0
4	Oracle	Oracle	KARTIK.BRANCH	CITY	VARCHAR2	50	50	0
5	Oracle	Oracle	KARTIK.BRANCH	BRANCH_KEY	VARCHAR2	50	50	0

## 6.2 Export All Mapping Specifications.

- ✓ You can export all mappings in a Project/Subject Area into Excel files

1. Select the Project/Subject Area in which you would like to export all Mapping Specifications and Right Click and choose 'Export All'

You must select the correct Project/Subject Area.

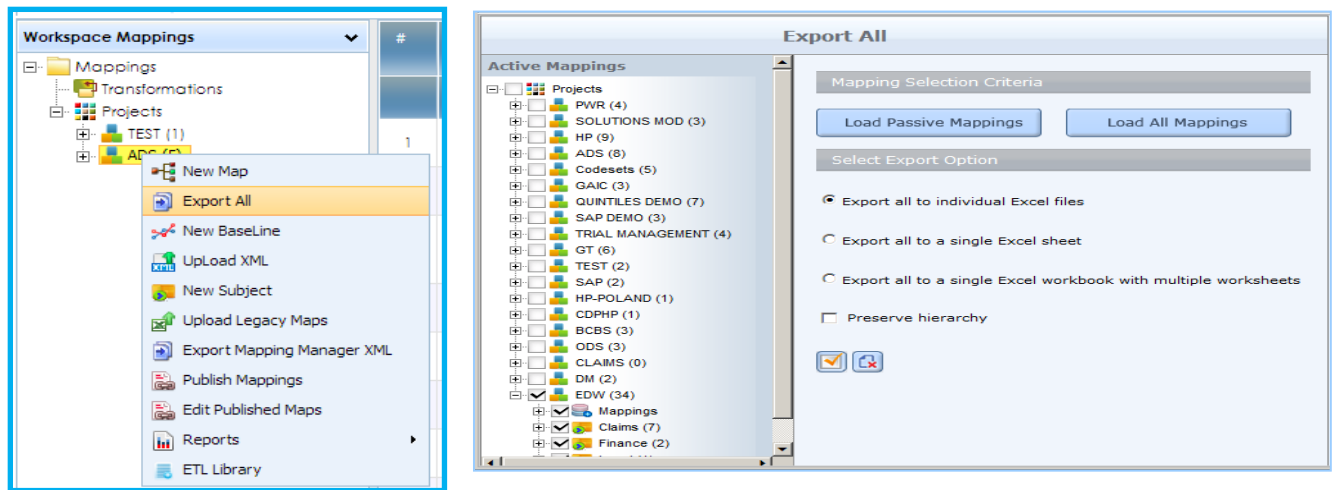
When you select 'Export All' ALL current mapping specifications are exported at the project level. The previously versioned map ping specifications located in the archive folder are not exported

2. A pop-up window opens. By default all "Active" Mappings are selected. You can choose the desired mappings for export by selecting mappings from the left panel. If you want to include the "Passive" (archived) mappings, you can choose the "Load Passive Mappings" (only passive mappings are selected) or "Load All Mappings" (active + passive are selected) options and then choosing the export option

3. The following are the export options available

- Export all to Individual Excel Files
- Export all to single Excel sheet (consolidated mapping report)
- Export all to a single Excel workbook with multiple worksheets
- Preserve Hierarchy (will create folder structure during export)

4. Next the following dialog box opens and will prompt you for the directory where you would like the .zip file to be saved



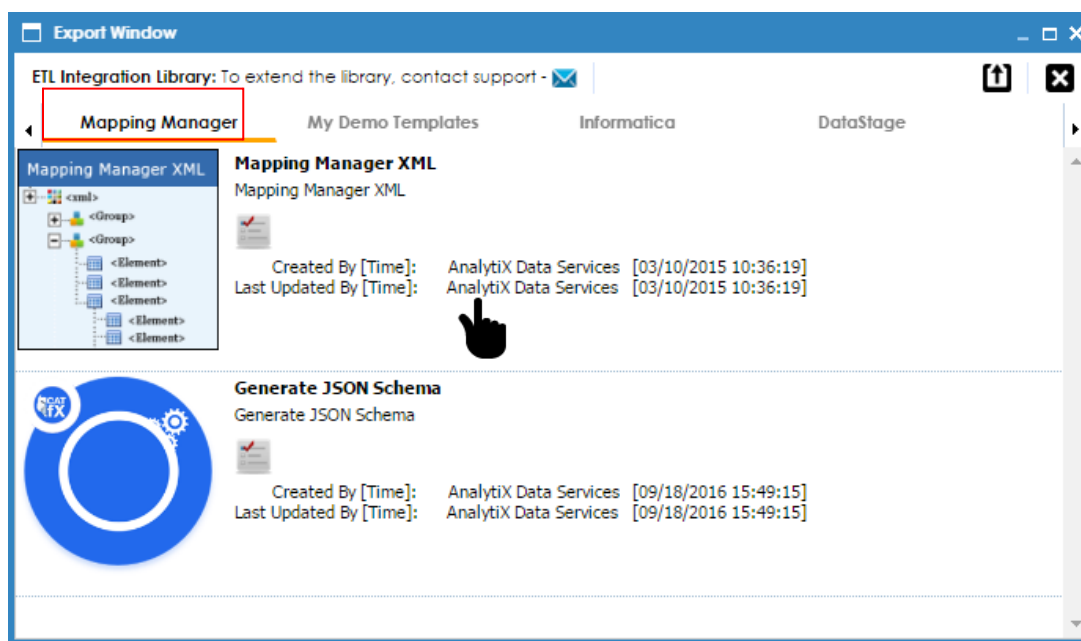
### 6.3 Export Mapping Specification in EMM specific XML format

You can export Mapping Specifications from EMM into a Proprietary XML format.

1. Click on the Export icon 
2. On the pop-up window, select the Export option i.e. Mapping Manager.
3. Select the appropriate design output and click the export icon.
4. The mapping specification will be converted into an XML or DTSX output.



Mapping Specification									
Graphical Designer									
Profiles: Sample Profile									
#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale	Target Column Nullable Flag
1	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0	0	<input type="checkbox"/>
2	EDW	EDW-PRD	dbo.Customers	CompanyName	nvarchar	40	0	0	<input type="checkbox"/>
3	EDW	EDW-PRD	dbo.Customers	ContactName	nvarchar	30	0	0	<input checked="" type="checkbox"/>
4	EDW	EDW-PRD	dbo.Customers	ContactTitle	nvarchar	30	0	0	<input checked="" type="checkbox"/>
5	EDW	EDW-PRD	dbo.Customers	Address	nvarchar	60	0	0	<input checked="" type="checkbox"/>
6	EDW	EDW-PRD	dbo.Customers	City	nvarchar	15	0	0	<input checked="" type="checkbox"/>
Total Rows: 13   Target Tables: 2   Source Tables: 2   Targets Not Mapped: 0   Sources Not Mapped: 0   Business Rules: 0   Possible Truncations: 2   Look Ups: 0									
Records from 1 to 13   Page 1   100 rows per page									



Click the export icon , the mapping specification generates an output in XML or DTSX output.

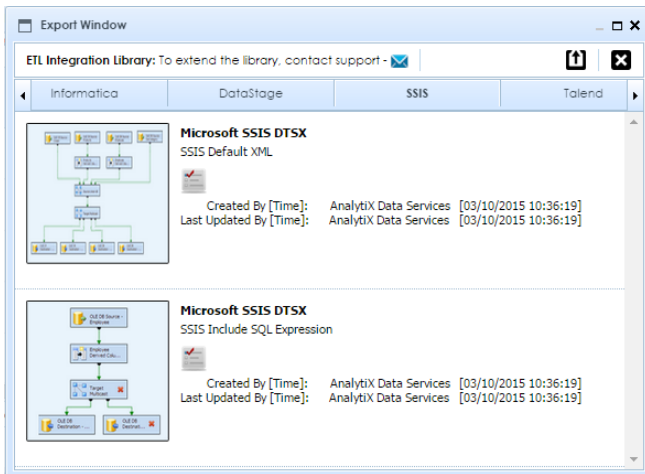
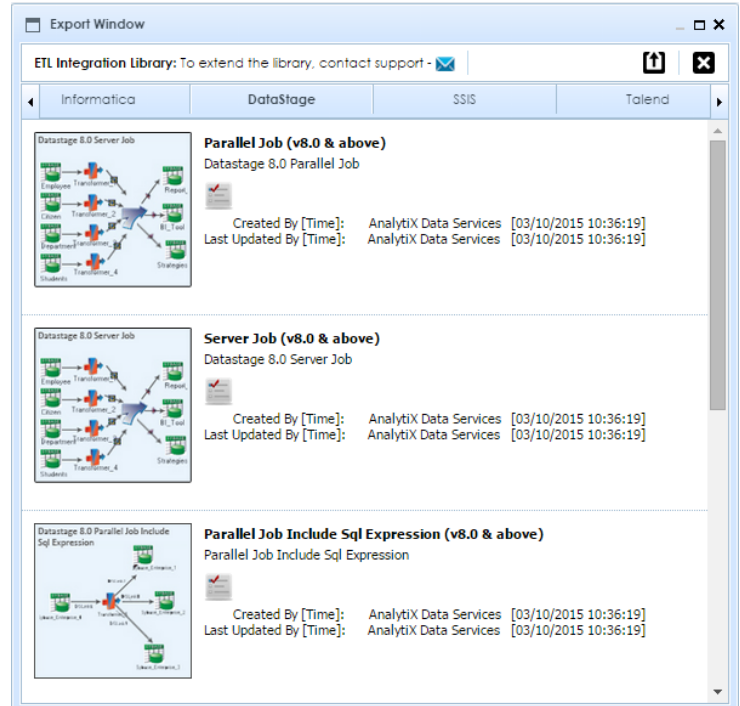
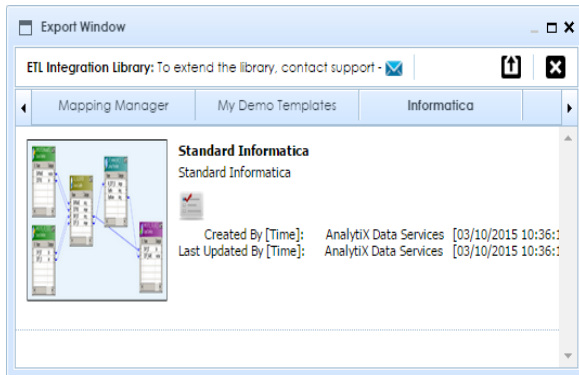
## 6.4 Export Mapping Specifications as XML/DTSX files to ETL Tools (Informatica, Datastage and SSIS)

You can export Mapping Specifications from EMM into the following formats

1. XML format for Informatica and Datastage
2. DTSX format for SSIS

- Click on the Export icon 

- On the pop-up window, select the Export option i.e. Informatica, Datastage or SSIS.
- Select the appropriate design output and click the export icon.
- The mapping specification will be converted into an XML or DTSX output.



Click on an option and then  
click the export icon

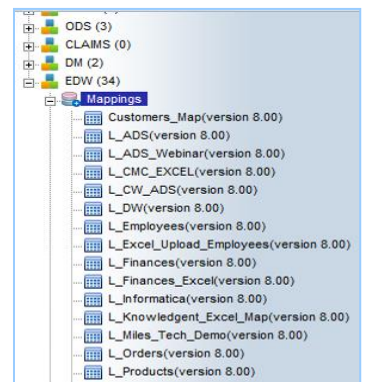
## 7. Versioning, Base-Lining and Mapping Comparison

You can display a Mapping Name with the following options

1. Standard Version
2. Version Label
3. No Version

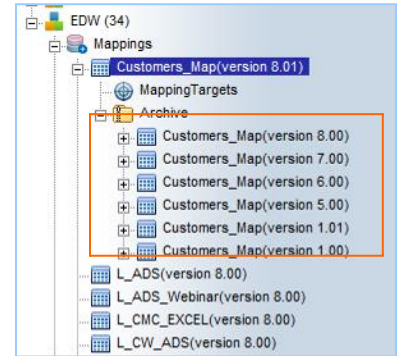
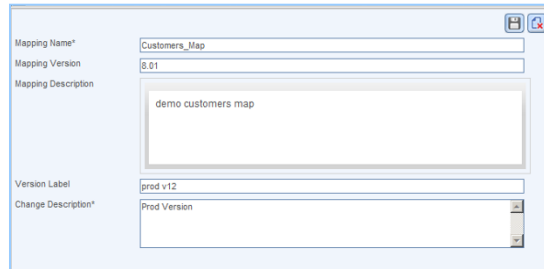
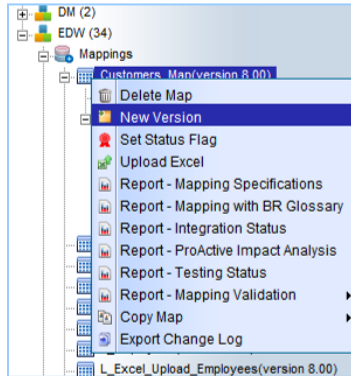
Depending on the option selected, the mapping would be displayed in the Project Browser/ Mappings Tree.


**Note:** If the display option is chosen as “Version Label” and the version label is blank, then the system will display the Standard Version instead




## 7.1 Create a New Version

1. Right Click on a Mapping Specification and select the “New Version” option
2. In the Pop-up window, enter the Change Description (mandatory) and Version Label (optional) and click the Save icon
3. The new version is created and the previously active version is now displayed under the archive folder



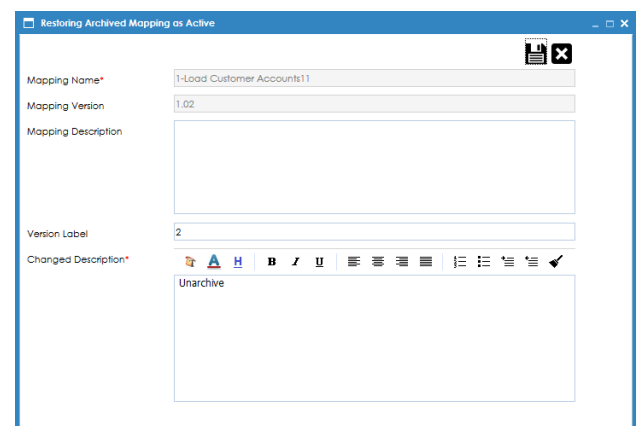
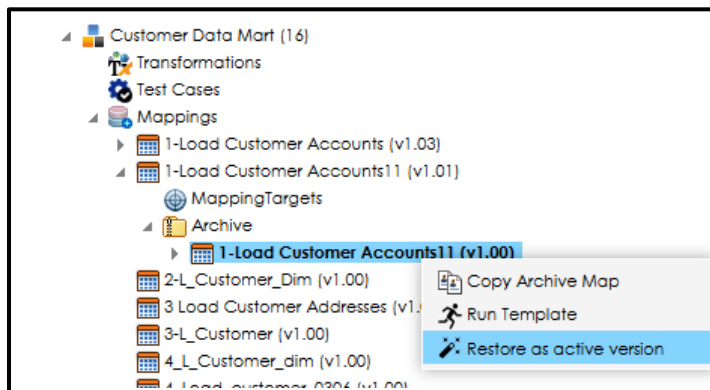
 All previously versioned mapping specifications located in the archive folder are read-only and cannot be edited.

 The mapping version number will increment automatically, Version label is a label that can be applied by any user. The system forces the user to enter a change description for audit control purposes

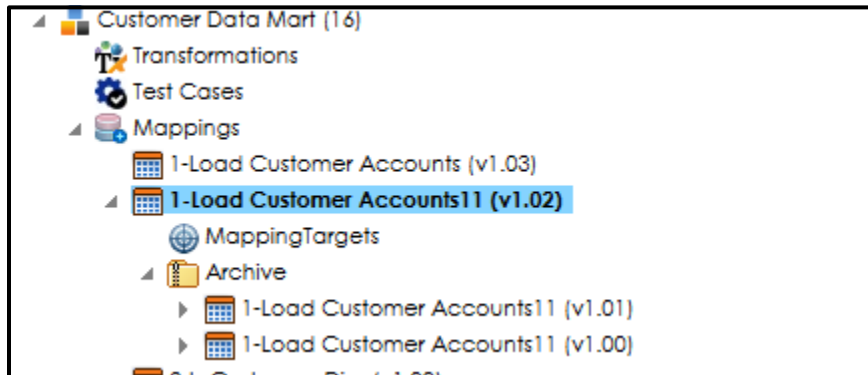
### 7.1.1 Restore Archive Maps

We have an Option to restore the Archived map as active map i.e. Right click on the archived map and click on “Restore as active version”

- Go to Archived folder under Mapping node
- Right Click on the archived map which is read only mode and click on “Restore as active version”
- In the Pop-windows enter the version label (optional) and Change description (mandatory) and click on save icon.
- The previously archived version will be restored to active version and moved to mapping node and the existing mapping will be moved to archived folder.



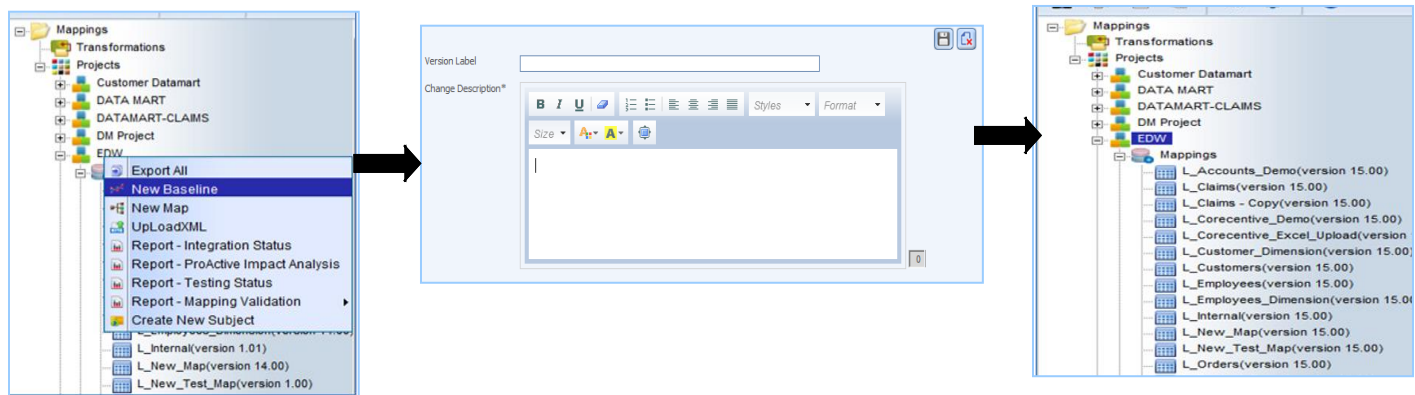





## 7.2 Create a new Base-Line version

Base-Lining a project will bring ALL mapping specifications in the project to the same version (Max of all version numbers) number. To base-line a project

1. Select a Project, right click and select the “New Baseline” option
2. In the Pop-up window, enter the Change Description (mandatory) and Version Label (optional) and click the Save icon
3. New Baseline is created for all mapping specifications in the project



 Note that prior to performing the baseline, the current mapping specification for the collection of current mapping specifications are at version 1.01, 1.00, 14.00 etc. in the screenshot. After performing the New Base-Line the all current mapping specifications will be incremented (max) to a version number of 15.00. (See screenshot in step 4 below.)

## 7.3 Deleting Mapping Specification & Rolling back changes to the previous version

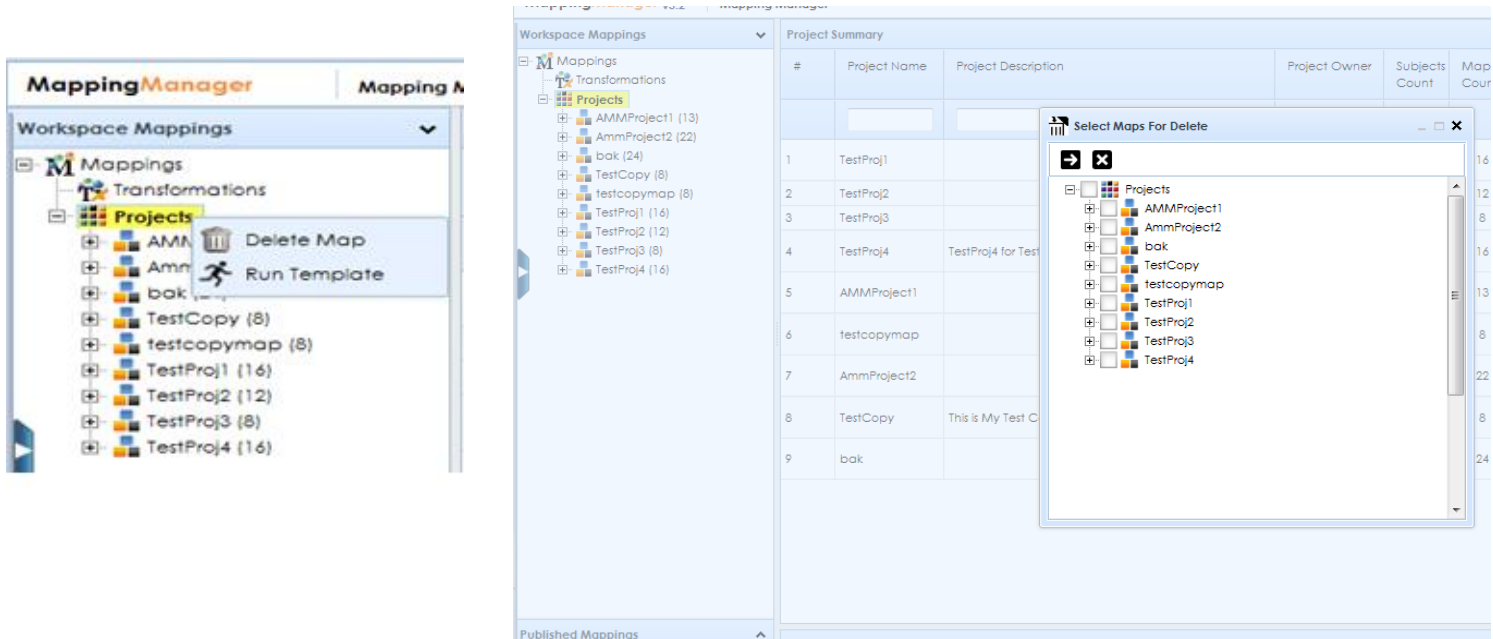
Deleting Maps will be done in three ways:

- Projects Level.
- Mappings level by selecting Single map.

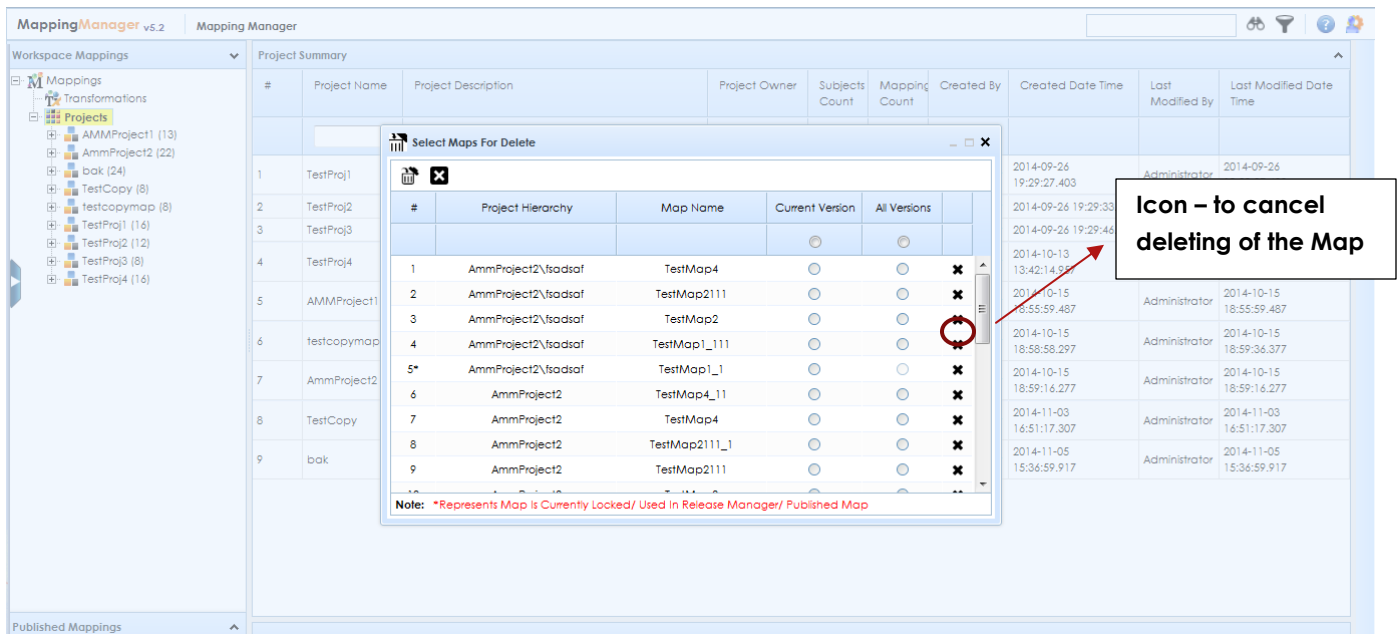
- Mappings level by selecting multiple maps.

### 7.3.1 Deleting Maps at Project Level

In Projects Level user select “**Delete Map**” then all mappings are displayed in tree except published, locked, release manager maps and archived mappings. User selected maps are populate on grid then user can delete selected maps.



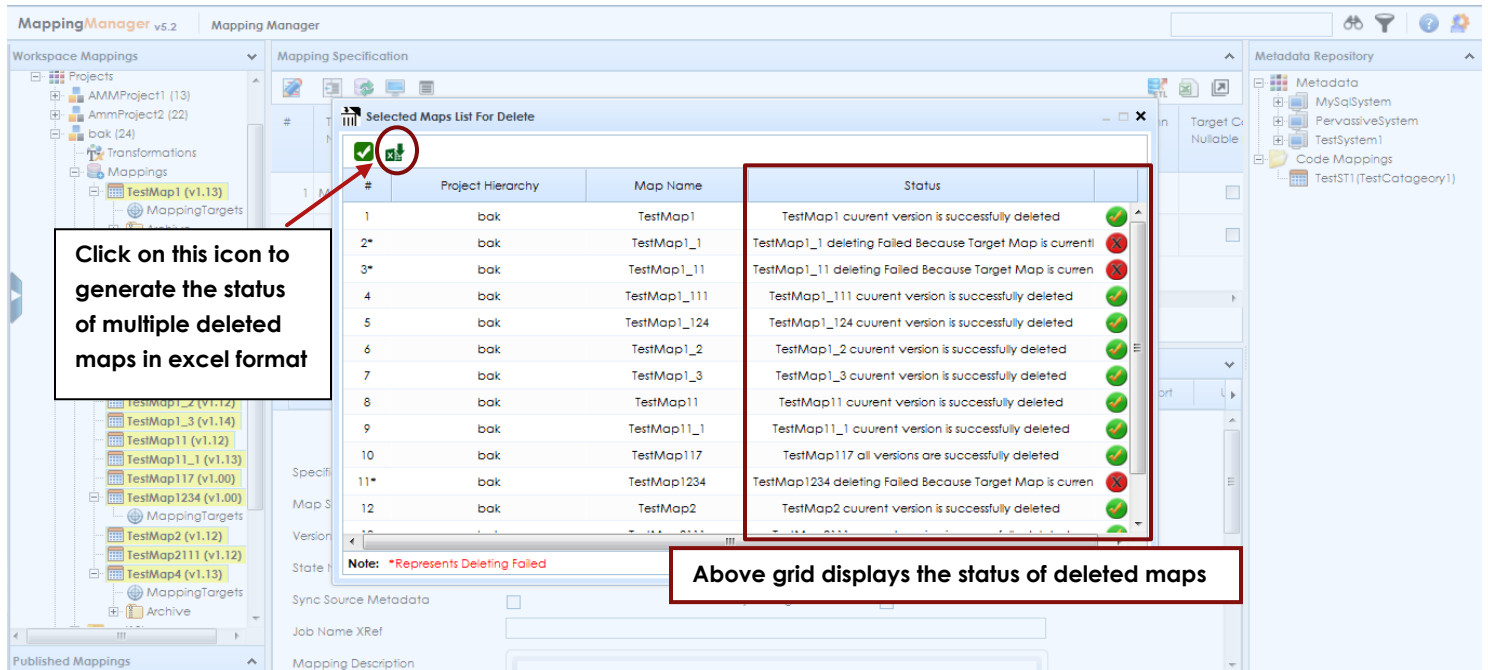
At project level right click and click on Delete map, then projects tree is displayed with all maps. Select maps and press next button. Selected maps are appeared in grid to be deleted.



All selected maps are displayed in a grid with **Current Version** and **All versions** options. Here user selects one of the operation based on the need.



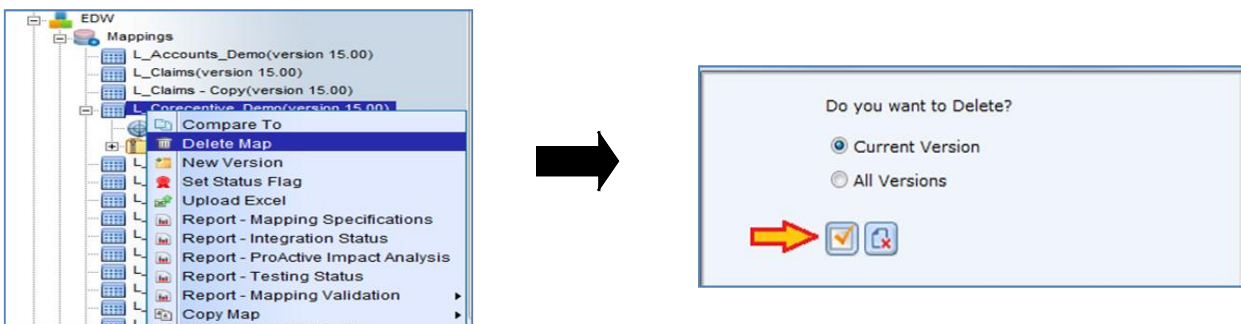


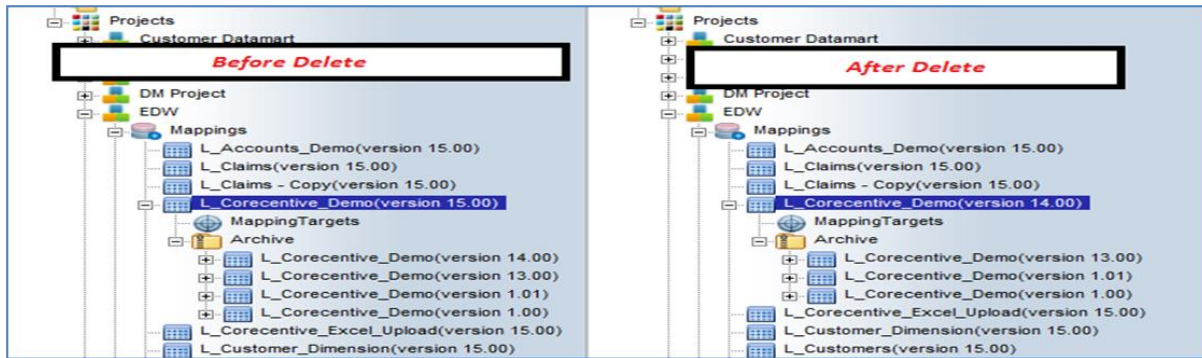


### 7.3.2 Deleting a Single Map

The Mapping Manager allows deletes for the purposes of housecleaning (incomplete and irrelevant mapping specifications) and to roll back to a previously versioned state. Users have the ability to delete all versions at the mapping specification level (discard all versions) or to delete only the current version. Deleting the current version removes current version and makes the previously versioned mapping specification the current version

1. To delete a mapping version, right click on a mapping and select the “Delete Map” option
2. From the dialog box, select the delete option (“Current Version” Vs “All Versions”) and click the confirm icon.
  - a. Choose **Current Version** to delete the current version and revert to the previously versioned mapping specification (E.g. rollback to the previous version)
  - b. Choose **ALL Versions** to remove the current mapping specifications and all contents of the Archive folder (previously versioned mapping specifications).





The screenshot illustrates a before and after view showing the rollback to the previous version



Choosing **ALL VERSIONS** should only be used as a house-cleaning function as the mapping specification and all previous versions will be permanently deleted.

### 7.3.3 Delete Multiple Maps

This feature is same as the project level delete here user selects required mappings to delete will be selected directly and Delete Map grid is displayed with selected maps

**Workspace Mappings**

- Mappings
  - Transformations
  - Projects
    - AMMProject1 (13)
    - AmmProject2 (22)
    - bak (22)
  - Transformations
    - Mappings
      - TestMap1 (v1.12)
      - TestMap1\_1 (v1.11)
      - TestMap1\_11 (v1.04)
      - TestMap1\_111 (v1.00)
      - TestMap1\_2 (v1.11)
      - TestMap1\_3 (v1.13)
      - TestMap11 (v1.11)
      - TestMap11\_1 (v1.12)
      - TestMap1234 (v1.00)
      - TestMap2 (v1.11)
      - TestMap2111 (v1.11)
      - TestMap4 (v1.12)
    - MappingTargets
    - Archive
  - sss (10)
  - TestCopy (8)
  - testcopymap (8)
  - TestProj1 (16)
  - TestProj2 (12)
  - TestProj3 (8)
  - TestProj4 (16)

**Published Mappings**

**Mapping Specification**

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name
1	MySqlSystem	DB2Env	ADMINISTRATOR.A	ACTNO
2	MySqlSystem	DB2Env	ADMINISTRATOR.A	ACTKWD
3	MySqlSystem	DB2Env	ADMINISTRATOR.A	ACTDESC

Records from 1 to 3

**Information**

Source Extract SQL	Target Update Strategy	Test

**Delete Map**

Specification Name: TestMap4

Map Specification Version: 1.12

Version Label:

State Name:

Sync Source Metadata: ☐

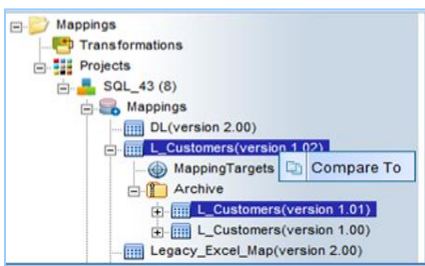
Job Name XRef:

Mapping Description:

## 7.4 Mapping Comparison (Compare two different Mapping Versions for the changes)

The advanced mapping comparison capabilities allows users to quickly and efficiently compare any two mapping specifications and visually view the changes between the two on a row by row basis. The robust comparison capabilities are not just limited to a mapping specification and its previous versions (archive contents). The advanced comparison capabilities allow users to compare a mapping specification to any mapping specification across all projects (e.g. parallel project initiatives etc.). Users can see what information changed, newly added rows & deleted rows

1. Select any two mapping versions, right click and select the “Compare To” option.
2. The Comparison report compares the changes by taking the Target Column as the reference.
3. All changes between the versions are highlighted in **RED** color.
4. The report can be exported out into PDF and Excel formats.



Exclude Common RowsExport:

Mapping Specification Comparison						
Map1 Name: L_Customers (1.02)						
Map2 Name: L_Customers (1.01)						
Version	Source Table Name	Source Column Name	Source Column Datatype	Source Column Length	Target Table Name	Target Column Name
1.02					Address	AddressID
1.01						
1.02	dbo Customers	City	nvarchar	15	FullAddress	City
1.01	dbo Customers	City	nvarchar	15	FullAddress	City

## 8. Associate a Requirement/Reference Table with a Mapping

### 8.1 Associate a Requirement with a Mapping

All the Specification templates are listed under Requirements workspace with in the Requirements module.

Requirements Workspace

Specification Templates Catalogue

- Governance (1)
- EDW (1)
- ODS (1)
- DM (1)
- My Project SDLC (2)
- AllState (1)
- Pfizer (1)

Projects Summary

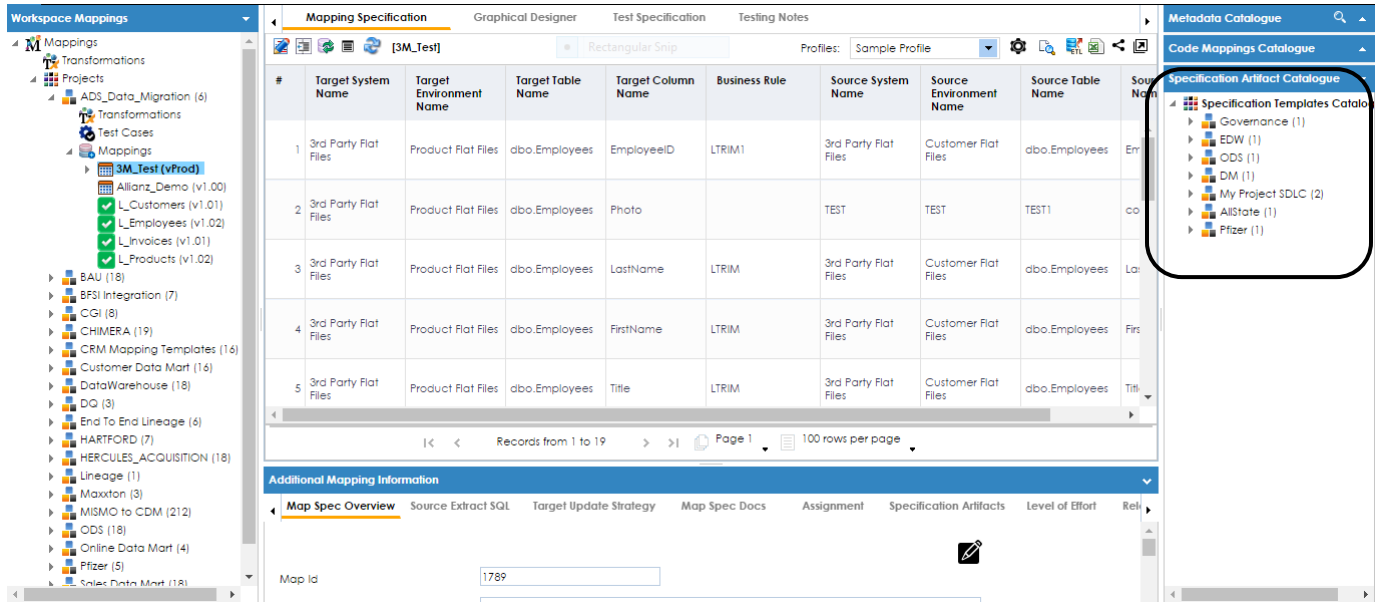
#	Project Name	Project Description	Subjects Count	Specifications Count	Specification Artifacts Count	Created By	Created Date	Modified By	Modified Date	Edit	Delete	History
	<input type="text"/>	<input type="text"/>				<input type="text"/>						
1	<a href="#">AllState</a>		0	1	1	Administrator	01/20/2017 12:49:55	Administrator	01/20/2017 12:49:55			
2	<a href="#">DM</a>		0	1	4	Administrator	11/09/2016 09:21:03	Administrator	11/09/2016 09:21:03			
3	<a href="#">EDW</a>		0	1	4	Administrator	10/18/2016 15:54:57	Administrator	11/09/2016 05:38:18			
4	<a href="#">Governance</a>		0	1	9	Administrator	10/18/2016 03:52:51	Administrator	10/18/2016 03:52:51			
5	<a href="#">My Project SDLC</a>		0	3	19	Administrator	12/07/2016 05:38:51	Administrator	01/11/2017 08:38:05			
6	<a href="#">ODS</a>		0	1	3	Administrator	11/02/2016 10:37:40	Administrator	11/09/2016 05:40:56			
7	<a href="#">Pfizer</a>		0	1	3	Administrator	03/06/2017 09:25:33	Administrator	03/06/2017 09:25:33			

The requirements are viewed in the Mapping Manager module on the right hand side which can be used under Mapping as below.

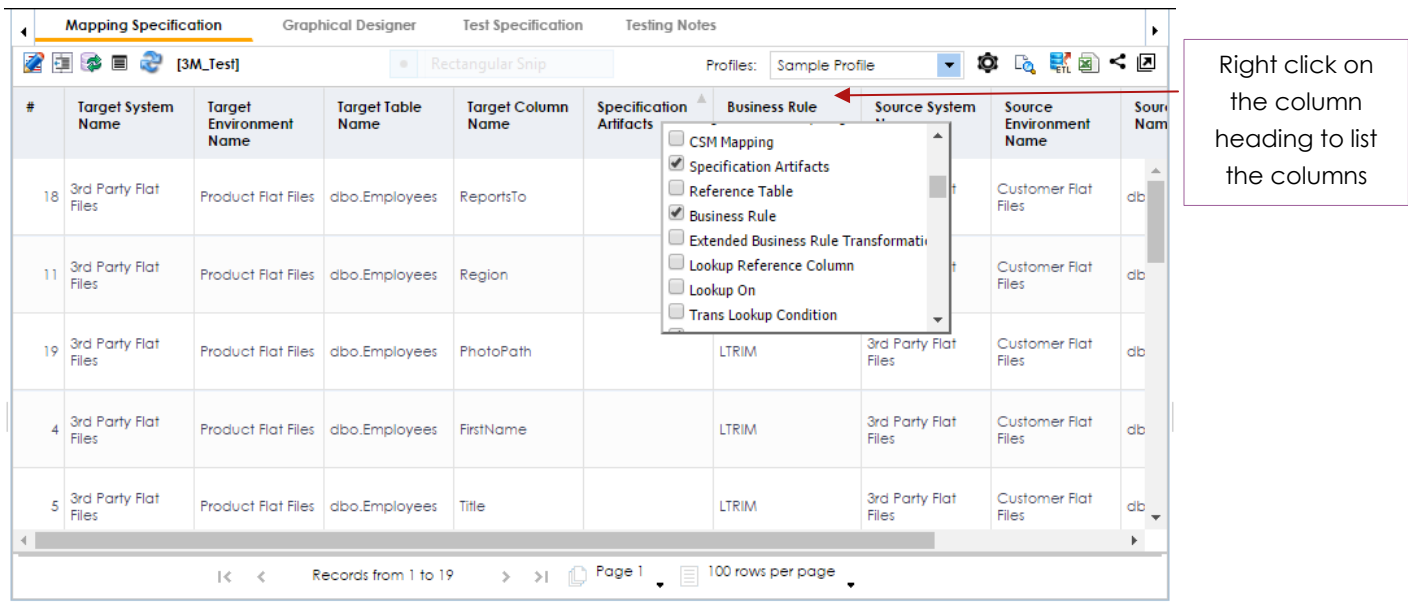
You can associate the Requirements spec doc to the mapping grid.

Step1: Click on any Map in the Mappings Workspace of Mapping Manager Module

Step2: On the right side of the page, you can see Specification Artifact Catalogue which contains all Specification Templates.



Step3: You can add the new column 'Specification Artifacts' to the mapping grid by right clicking on the column header. Once you click on the column header, you can see the 'Specification Artifacts' column and check that box to appear in the grid.



Once you add 'Specification Artifact' column to the grid, you can now drag and drop the entire requirement into the Mapping Grid as shown below.

The screenshot shows the Erwin Mapping Specification tool interface. The main window displays a table with the following columns: #, Target System Name, Target Environment Name, Target Table Name, Target Column Name, Specification Artifacts, Business Rule, Source System Name, and Source Environment Name. The table contains several rows of mapping data. On the right side, there is a 'Metadata Catalogue' panel with a search bar and a list of 'Specification Artifact Catalogue' items, including 'Governance (1)', 'Specifications', and 'FACETS\_PHASE\_1\_DEV (v1.00)'.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Specification Artifacts	Business Rule	Source System Name	Source Environment Name
11	3rd Party Flat Files	Product Flat Files	dbo.Employees	Region			3rd Party Flat Files	Customer Flat Files
10	3rd Party Flat Files	Product Flat Files	dbo.Employees	City		LTRIM	3rd Party Flat Files	Customer Flat Files
19	3rd Party Flat Files	Product Flat Files	dbo.Employees	PhotoPath		LTRIM	3rd Party Flat Files	Customer Flat Files
4	3rd Party Flat Files	Product Flat Files	dbo.Employees	FirstName		LTRIM	3rd Party Flat Files	Customer Flat Files
5	3rd Party Flat Files	Product Flat Files	dbo.Employees	Title		LTRIM	3rd Party Flat Files	Customer Flat Files

Edit the Mapping Specification and Click on any Specification Artifact Catalogue on the right hand side window, now Drag and Drop it into the grid under Specification artifact column.

Once you Drag and Drop the Specification artifact into the grid with the entire spec doc as a requirement, it creates a hyperlink as shown in the below image.

Click on “Save” icon to save the map.

The screenshot shows the Erwin Mapping Specification tool interface after the specification artifact has been added. The 'Specification Artifacts' column now contains hyperlinks to the specification artifacts from the metadata catalogue. The table contains several rows of mapping data.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Specification Artifacts	Business Rule	Source System Name	Source Environment Name
3	3rd Party Flat Files	Product Flat Files	dbo.Employees	LastName	[SPECIFICATION_ARTIFACT]: <a href="#">Governance//FA</a>	LTRIM	3rd Party Flat Files	CU File
11	3rd Party Flat Files	Product Flat Files	dbo.Employees	Region	[SPECIFICATION]: <a href="#">Governance//FACETS_PHASE_1_DEV (v1.00)</a>	LTRIM	3rd Party Flat Files	CU File
2	3rd Party Flat Files	Product Flat Files	dbo.Employees	Photo	[SPECIFICATION]: <a href="#">Governance//FACETS_PHASE_1_DEV (v1.00)</a>		TEST	TEI
1	3rd Party Flat Files	Product Flat Files	dbo.Employees	EmployeeID	[SPECIFICATION]: <a href="#">Governance//FACETS_PHASE_1_DEV (v1.00)</a>	LTRIM1	3rd Party Flat Files	CU File
10	3rd Party Flat Files	Product Flat Files	dbo.Employees	City	[SPECIFICATION]: <a href="#">EDW//EDW_Specification1 (v1.00)</a>	LTRIM	3rd Party Flat Files	CU File

Click on Hyperlink under “Specification Artifact” column to view the details as below.

**Specification Artifact Details**

Rectangular Snip 04/20/2017

**Specification - FACETS\_PHASE\_1\_DEV**

**Project:** Governance  
**Owner:** John Doe  
**Status:** Pending Review

**Overview**

**Design**

**Requirements**

**Functional**

FNC001:  
Description:

FNC002:  
Description:

FNC003:  
Description:

**Non-Functional**

NF001:  
Description:

NF002:  
Description:

NF003:  
Description:

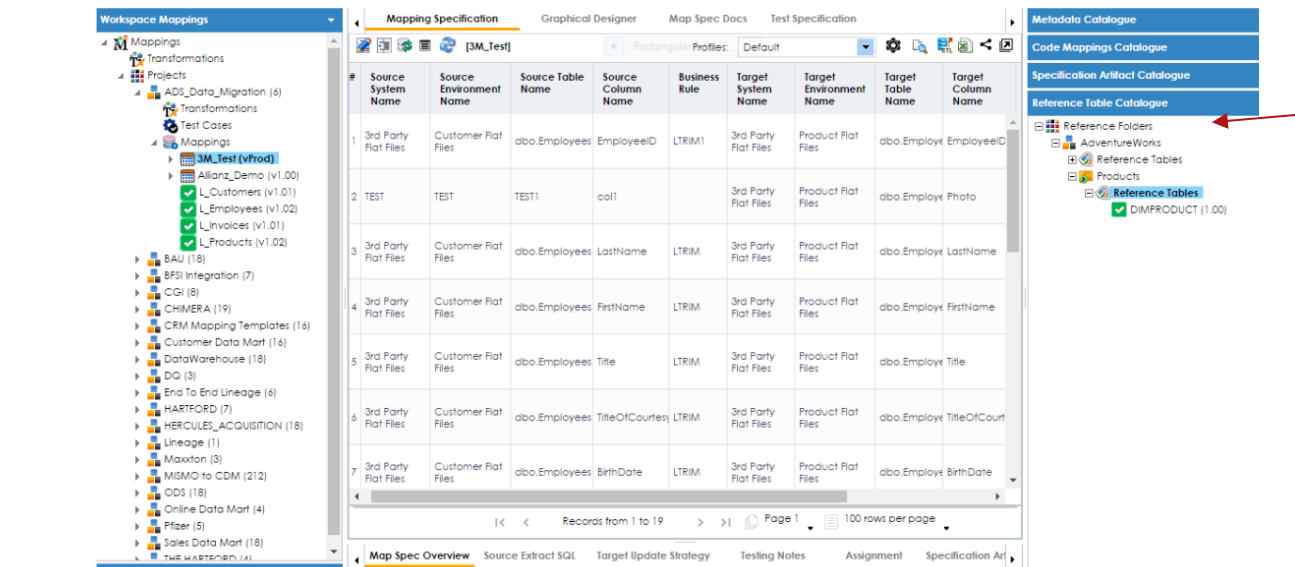
## 8.2 Associate a Reference Table with a Mapping

You can associate the reference tables to the mapping grid.

Step1: Click on any Map in the Mappings Workspace of Mapping Manager Module

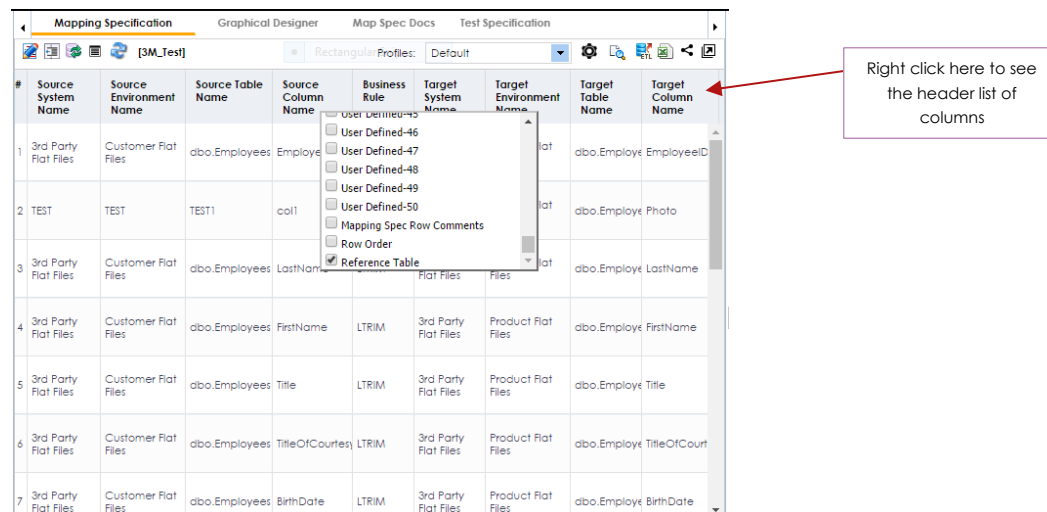


Step2: On the right side of the page, you can see Reference Table Catalogue which contains all published reference tables



### Add new column 'Reference Table' to Mapping Grid:

You can add the new column 'reference table' to the mapping grid by right clicking on the column header. Once you click on the column header, you can see the 'Reference Table' column and check that box to appear in the grid.



### Drag/Drop of Reference Table into the mapping grid:

Once you add 'Reference Table' column to the grid, you can now drag and drop your published reference tables into the Mapping Grid as shown below.

Step1: Click on any published reference table and Drag and Drop it into the grid

Step2: Once you Drag and Drop the tables into the grid, it creates a hyperlink as shown below



The top screenshot shows the 'Mapping Specification' table in the Erwin Mapping Manager. The table has columns for Source System Name, Source Environment Name, Source Table Name, Source Column Name, Business Rule, Target System Name, Target Environment Name, Target Table Name, Target Column Name, and Reference Table. The bottom screenshot shows the same table with a red arrow pointing to a hyperlink in the 'Reference Table' column, with a callout box saying 'Click on this hyperlink to view the reference table'.

Once you click on the above hyperlink you can see the reference table as below with the “Reference Columns” in it.

PRODUCTKEY	PRODUCTALTERNATEKEY	PRODUCTSUBCATEGORY	WEIGHTUNITMEASURECODE	SIZEUNITMEASURECODE	ENGLISHPRODUCTNAME	SPANISHPRODUCTNAME
51	HJ-7162				Thin-Jam Hex Nut 8	
1	AR-5381				Adjustable Race	
3	BE-2349				BB Ball Bearing	
4	BE-2908				Headset Ball Bearings	
5	BL-2036				Blade	
6	CA-5965				LL Crankarm	
7	CA-6738				ML Crankarm	
8	CA-7457				HL Crankarm	
9	CB-2903				Chainring Bolts	
10	CN-6137				Chainring Nut	
11	CR-7833				Chainring	
12	CR-9981				Crown Race	
13	CS-2812				Chain Stays	
14	DC-8732				Decal 1	

## 9. Create and Maintain Data Dictionaries

The Mapping Manager supports the ability to create and maintain data dictionaries across all enterprise systems. Once the business definitions for tables and columns are updated in Mapping Manager Module (updated directly from the metadata browser) they are then sharable across the organization to all associates having a user id. The

metadata browser allows all business properties (business names for tables and columns) and technical properties (data type, precision, scale, null-rules, default values etc.) to be maintained using the metadata browser.

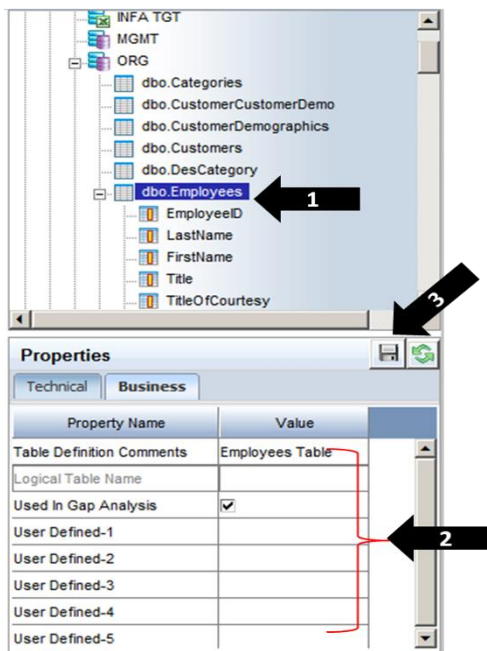
In this section, you will learn:

- ✓ How to enter and maintain data dictionaries
- ✓ Export and Update Data Dictionaries at the system level

## 9.1 Entering and Maintaining Data Dictionaries

1. Navigate to the Metadata browser and select a table/column whose metadata you would like to enter or update.
2. Click on the Business Properties tab and enter the required attributes
3. Click the save icon when done. Metadata for a particular table or column is successfully updated.

Similarly, to update the Technical Properties, click on the Technical Properties tab and enter/update the required attributes.



Metadata Element	Business Properties	Technical Properties
Table	Table Definition Comments	
	Logical Table Name	
	User Defined Fields 1-5	

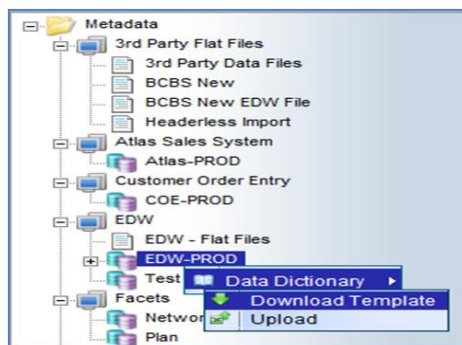
Column	Column Definition Comments	DB Default Value
	Logical Column Name	ETL Default Value
	SDI Flag	Identity Flag
	SDI Description	Natural Key Flag
	User Defined Fields 1-5	Primary Key Flag
The above Technical & Business Properties for a Table / Column will be preserved by the application even after doing Reload of Metadata for an environment (Unless you select the 'Delete & Reload Environment' option when you upload metadata)		Column Scale
		Min and Max Values
		Percent Null Value

## 9.2 Export and Update Data Dictionaries at the System Environment Level

1. Navigate to the Metadata browser and select a System >> Environment whose metadata you would like to export into an excel format.
2. Right click on the Environment Name and select the Data Dictionary >> Download Template option. This will export the data dictionary into an excel file format.
3. Make the required changes in the downloaded data dictionary.

**Note:** The table and column names cannot be updated using this mechanism.

4. To update the metadata, right click on the Environment Name and select the Data Dictionary >> Upload option. Select the file that contains the updated metadata and proceed with the upload process. The System is updated with the latest changes



	Column Title
Table Information	Table Definition Comments (TABLE_DEF_COMMENTS)
	Logical Table Name (LOGICAL_TABLE_NAME)
	Last Modified By (LAST_MODIFIED_BY)
	Last Modified Date (LAST_MODIFIED_DATE_TIME)
Column Information	Column Definition Comments (COL_DEF_COMMENTS)
	Logical Column Name (LOGICAL_COLUMN_NAME)
	SDI Flag (SDI_FLAG)
	SDI Description (SDI_DESCRIPTION)
	Last Modified By (LAST_MODIFIED_BY)
	Last Modified Date (LAST_MODIFIED_DATE_TIME)

*During a data dictionary upload process, only the table/column attributes shown above will be updated. This process will not add new tables/columns or remove tables/columns from the existing metadata. To add/remove tables/columns, refer to the Metadata upload process under the Metadata Manager module.*

## 10. Application Plug-in Framework

The Application Plug-in Framework allows custom built application and third party applications to be integrated directly with Mapping Manager user interface and integrate with the metadata and data mapping repository. Available out of the box plug-ins will include Built in Wiki Pages, Automated Testing Framework and Discovery BI Module to access and analyze the repository metadata.

### View All Plug-ins:

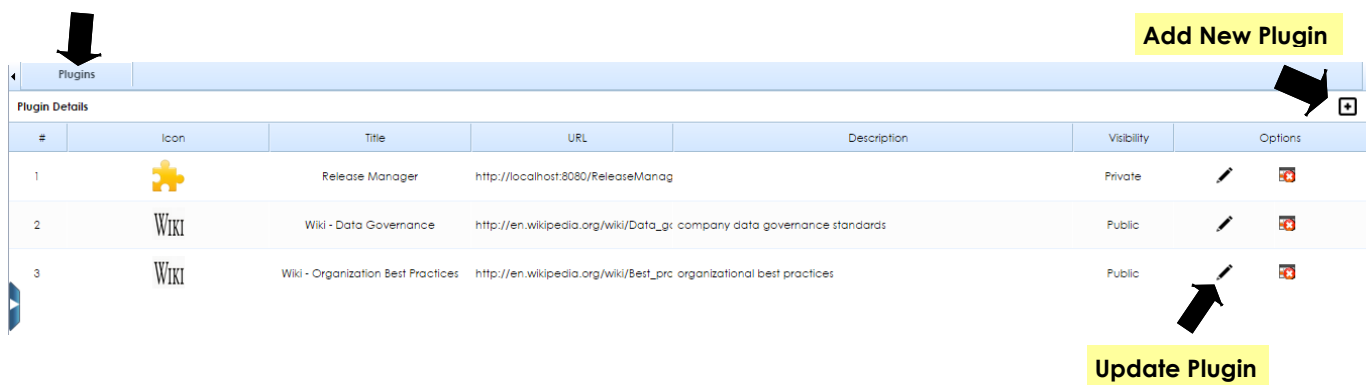
Click on Launcher pad, Go to Settings icon and Click on “Plug-in” icon. All available plug-in references are displayed.

**Note:** A user can view all plug-ins added by them (both *PUBLIC* & *PRIVATE*) and only those plug-ins added by other users whose visibility is set as *PUBLIC*.



## Add New Plug-ins (or) Update existing Plug-ins:

1. Click the settings icon to navigate to the settings module
2. Go into Plugins area
3. The list of existing plug-ins is displayed
4. To add a new plug-in, click the “Add” icon
5. In the pop-up window, enter all the required information to add a new plug-in
6. Every user can customize the display of the plug-ins added by them. To enable all users to view the plug-ins added by you, set the Plugin Access status to **Public**. To restrict access to the plugin for other users, set the plugin access to **Private**. All plug-ins set as Private will only be visible to the user who created them
7. Enter the required details and click the “Save” icon



#	Icon	Title	URL	Description	Visibility	Options
1		Release Manager	http://localhost:8080/ReleaseManag		Private	
2		Wiki - Data Governance	http://en.wikipedia.org/wiki/Data_gx company data governance standards		Public	
3		Wiki - Organization Best Practices	http://en.wikipedia.org/wiki/Best_pr organizational best practices		Public	

Add Plugin

Plugin Visibility

Public

Plugin Title\*

Plugin URL\*

Plugin Icon

Choose File

No file chosen

*Note: Best result for 32 x 32 size*

Plugin Description

## 12. Global Search Functionality

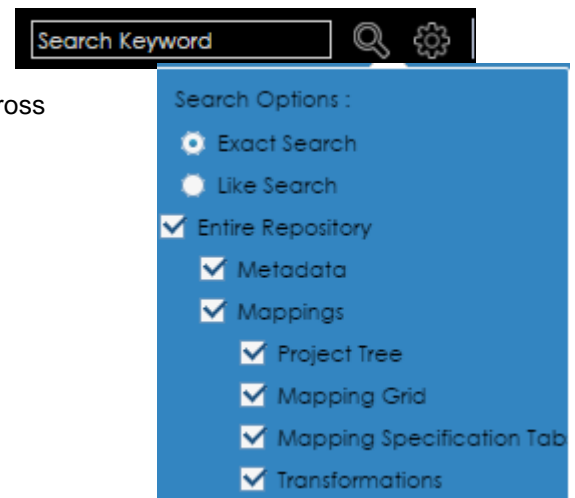
Enter a keyword and search for its occurrence anywhere across Metadata, Mapping Specifications and Transformations. The search performed is a LIKE search i.e. **%keyword%**.

Ability to perform a global keyword search based on exact match of text (vs LIKE based search).

A global search text-field is provided in the tool bar of the Mapping Manager module (as shown below). Enter a keyword to search.

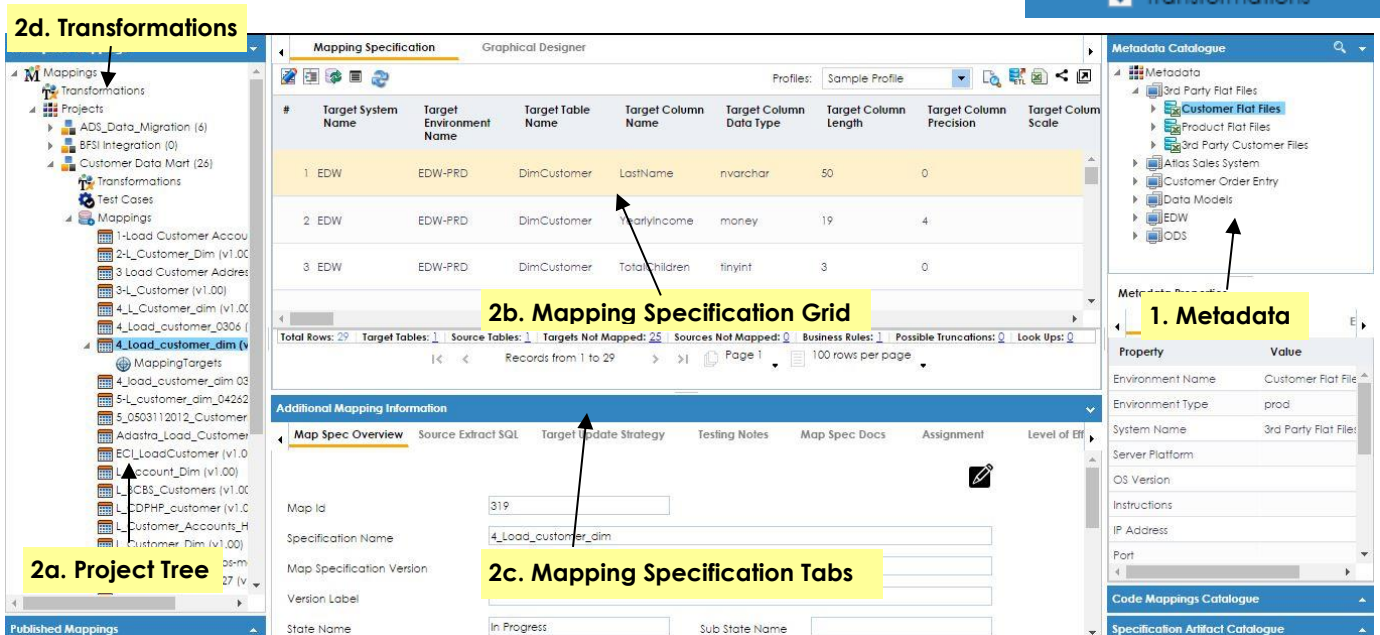


The default search includes all Metadata and Mapping Information. User can further customize search by selecting the required search criteria from the search pull-down menu.



The Global search functionality searches for the entered keyword across

1. Metadata
2. Mappings
  - a. Project Tree
  - b. Mapping Specification Grid
  - c. Mapping Specification Tabs
  - d. Transformations



Global Search

EDW

**Metadata** Mapping Information Specifications Specification Overview Transformations

System	Environment	Table Name	Logical Table Name	Table comments	Table Definition	Table User Defined 1	Table User Defined 2	Table User Defined 3
EDW	EDW-DEV	dbo.Alphabetical list of products						
EDW	EDW-DEV	dbo.Alphabetical list of products						
EDW	EDW-DEV	dbo.Alphabetical list of products						
EDW	EDW-DEV	dbo.Alphabetical list of products						
EDW	EDW-DEV	dbo.Alphabetical list of products						
EDW	EDW-DEV	dbo.Alphabetical list of products						
EDW	EDW-DEV	dbo.Alphabetical list of products						
EDW	EDW-DEV	dbo.Alphabetical list of products						
EDW	EDW-DEV	dbo.Alphabetical list of products						
EDW	EDW-DEV	dbo.Categories						

Search results across Metadata

1 2 3 4 5 ... Records from 1 to 100 of 1385

Global Search

EDW

Metadata **Mapping Information** Specifications Specification Overview Transformations

Project	Project Description	Subject Area	Subject Description	Mapping Name	Mapping Description	Mapping Version	Mapping Status
EDW				EDW_ODS_CUSTOMERS	Customer table mapping from ODS to EDW system	5.02	Active
EDW				EDW_ODS_CUSTOMERS	customer table mapping from ODS to EDW system	1.00	Passive
EDW				EDW_ODS_CUSTOMERS	customer table mapping from ODS to EDW system	1.01	Passive
EDW				EDW_ODS_CUSTOMERS	customer table mapping from ODS to EDW system	1.02	Passive
EDW				EDW_ODS_CUSTOMERS	customer table mapping from ODS to EDW system	1.03	Passive
EDW				EDW_ODS_CUSTOMERS	customer table mapping from ODS to EDW system	1.04	Passive
EDW				EDW_ODS_CUSTOMERS	customer table mapping from ODS to EDW system	1.05	Passive
EDW				EDW_ODS_CUSTOMERS	customer table mapping from ODS to EDW system	1.06	Passive
EDW				EDW_ODS_CUSTOMERS	customer table mapping from ODS to EDW system	1.07	Passive
EDW				EDW_ODS_CUSTOMERS	customer table mapping from ODS to EDW system	1.08	Passive
EDW				EDW_ODS_CUSTOMERS	customer table mapping from ODS to EDW system	1.09	Passive

Search results across Mapping Information

1 Records from 1 to 65 of 65

Global Search									
EDW									
Metadata	Mapping Information			Specifications		Specification Overview		Transformations	
Map Name	Src System	Src Environment	Src Table	Source Column	Source Logical Column Name	Source Column Definition	Source Column Comments	Source Data Type	Source Length
Customer1	ODS	ODS-DEV	Customer	CustomerID				int identity	10
Customer1	ODS	ODS-DATA-MODEL	EDW.T_RISK_CATEG	FUNDNG_ARNGM	Funding Arrangement		The funding arrangement description for a group's product offering. This applies for iFacets data only.	VARCHAR2	255
Customer1	EDW	EDW-TEST	dbo.Customers	CustomerID				nchar	10
Customer1	ODS	ODS-DEV	Customer	CustomerID				int identity	10

Search results across Source-To-Target Mapping Specifications

Records from 1 to 100 of 748

Global Search									
EDW									
Metadata	Mapping Information			Specifications	Specification Overview		Transformations		
Map Name	Version	Version Label	Status	Change Description	Job XRef	Source Extract Query	Source Extract Description	Target Update Strategy	Target Update Strategy Not
EDW_ODS_CUSTO	5.02		Active			select * from customers where CustomerID NOT IN (200,300,400,500)	SQL Query to eliminate all test records and fetch only valid records	Insert	New Insert target Customers
EDW_ODS_CUSTO	1.00		Passive	versioning for SME approval		select * from customers where CustomerID NOT IN (200,300,400,500)	SQL Query to eliminate all test records and fetch only valid records	Insert	New Insert target Customers
EDW_ODS_CUSTO	5.01		Passive	versioning mapping spec		select * from customers where CustomerID NOT IN (200,300,400,500)	SQL Query to eliminate all test records and fetch only valid records	Insert	New Insert target Customers
EDW_ODS_CUSTO	1.10	10x	Passive	dddddd		select * from customers where CustomerID NOT IN (200,300,400,500)	SQL Query to eliminate all test records and fetch only valid records	Insert	New Insert target Customers
EDW_ODS_CUSTO	1.01	1x	Passive	versioning for SME approval		select * from customers where CustomerID NOT IN (200,300,400,500)	SQL Query to eliminate all test records and fetch only valid records	Insert	New Insert target Customers

Search Results across Mapping Specification Tabs

Records from 1 to 53 of 53


The search results can further be filtered for each column using the filtering capabilities

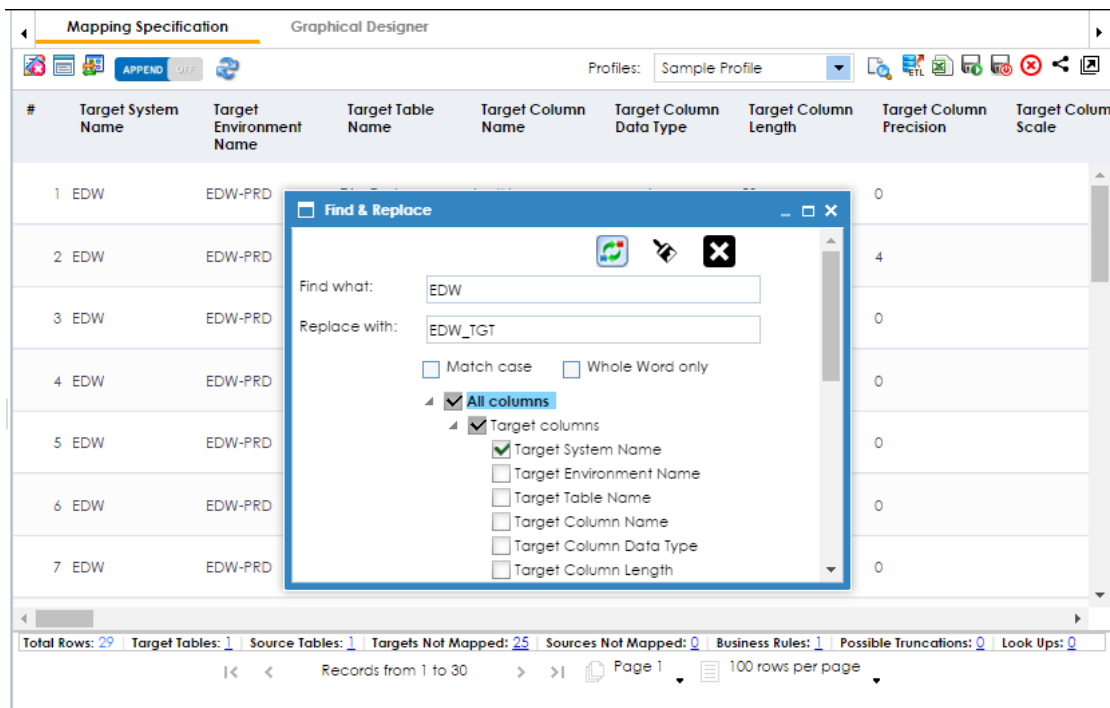


## Mass Update of Information in Mapping Specifications:

Information in a Mapping Specification can be updated using a “Find and Replace” function. Find any value in a Mapping Specification and replace it with another value. You can find and replace values according to Source/Target columns.

This is useful when moving mapping specifications from one environment to another. Example, if the table and column names are the same in dev and test, the system and environment name in the mapping specification can easily be updated using this interface.

Click on the  icon to open a pop-up window where you can search for a required value and replace it with another value



Enter a value in the “Find what” field and enter its replacement value in the “Replace with” field. From the column tree, select the required columns in which you want to replace the entered value. Click the icon when done.

At this point, your original values in the mapping specification grid are replaced but the mapping has not yet been updated with your changes. Click the save icon on the mapping specification grid to save the changes. Cancel to ignore the changes.

## 13. Auto Sync Metadata with Mappings

The Mapping Manager supports the ability to auto sync changes in metadata with the existing mappings (that have been created using the same metadata).

In this section, you will learn:

How to auto sync your data mappings with changes to the metadata

### Auto Sync Data Mappings with Metadata repository:

You can select the mappings that need to be auto synced with the metadata whenever there are changes to the metadata. However, Mapping Manager does not automatically sync the mapping repository with the metadata repository. The mappings that need to be auto synced with changes to the metadata should be selected. Only those mappings that have the auto sync feature enabled will be synced with the metadata whenever the metadata changes.

**Note:** Only Active mappings are updated as part of the auto-sync process. Archived mappings will remain in their original state and will not be updated.

### Auto Sync Metadata for New Mappings:

While creating a new mapping, if the mapping needs to be refreshed with the updated metadata in the future (if there is a change to the metadata), select the “Sync Source Metadata” or “Sync Target Metadata” or both options depending on whether you want the Source or Target or both to be updated.

### Auto Sync Metadata for existing Mappings:

For an existing mapping, if the mapping needs to be refreshed with the updated metadata in the future (if there is a change to the metadata), select the “Sync Source Metadata” or “Sync Target Metadata” or both options depending on whether you want the Source or Target or both to be updated.

**Workspace Mappings**

- Mappings
  - Transformations
  - Projects
    - ADS\_Data\_Migration (6)
    - BFSI Integration (1)
      - Transformations
      - Test Cases
      - Mappings
        - TEST\_MAP (v1.00)**
    - Customer Data Mart (26)
    - DataWarehouse (60)
    - ODS (18)
    - Online Data Mart (1)
    - Sales Data Mart (5)
    - TEST PROJECT (1)

**Mapping Specification** Graphical Designer

Profiles: Sample Profile

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale
1	3rd Party Flat Files	Customer Flat Files	dbo.Categories	CategoryID	int	4	10	0
2	3rd Party Flat Files	Customer Flat Files	dbo.Categories	CategoryName	nvarchar	15	0	0
3	3rd Party Flat Files	Customer Flat Files	dbo.Categories	Description	ntext	16	0	0

Total Rows: 4 | Target Tables: 1 | Source Tables: 0 | Targets Not Mapped: 4 | Sources Not Mapped: 0 | Business Rules: 0 | Possible Truncations: 0 | Look Ups: 0

Records from 1 to 4 | Page 1 | 100 rows per page

**Additional Mapping Information**

**Map Spec Overview** | Source Extract SQL | Target Update Strategy | Testing Notes | Map Spec Docs | Assignment | Level of Eff

Map Id: 360

Specification Name: TEST\_MAP

Map Specification Version: 1.00

Version Label:

State Name: In Progress | Sub State Name:

Sync Source Metadata: ☒ ON | Sync Target Metadata: ☒ ON

1. Re-Scanning metadata
2. Updating metadata using MS Excel update process i.e. Data Dictionary export on System Environment and subsequent import
3. Manually entering into the Technical and Business properties grid

**Data Dictionary**

- Download Template
- Upload
- Table Gap Analysis
- Column Gap Analysis

**Properties**

Technical | Business

Property Name	Value
Column Definition	
Column Comments	
Logical Column Name	Admission Count
SDI Flag	<input type="checkbox"/>
SDI Description	
Used In Gap Analysis	<input type="checkbox"/>
User Defined-1	
User Defined-2	
User Defined-3	
User Defined-4	
User Defined-5	

1. Update/Enrich using MS Excel Update process

2. Manually type into the technical and business properties (permission required)

3. Scan modeling tools and import definitions

## 14. Quick Publish of Mapping Specifications

This functionality allows Mapping Specifications to be published (i.e. automatically promote the mapping to Production “Environments”) and display in a Published Folder. Once a mapping specification is published, the Source and Target “System” and “Environment” information in the mapping specification is automatically updated to the Production “System” and “Environment”.

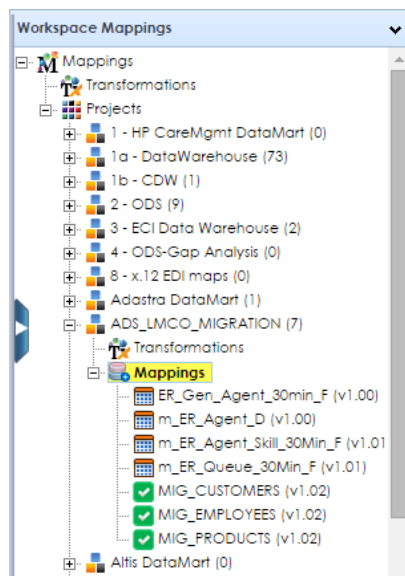
### Mappings Organization in the Project Tree

All mappings by default will be available in a “Workspace” folder structure. This is the current Project tree that contains all active and archived mappings. All development activity like creating a new mapping, editing mapping specifications, deleting mappings will be performed in the Workspace folder.

Project Summary										
#	Project Name	Project Description	Project Owner	Subjects Count	Mapping Count	Created By	Created Date Time	Last Modified By	Last Modified Date Time	
1	1a - DataWarehouse	Enterprise Data Warehouse. The project will source data from all enterprise source systems of record and be used across the organization to deliver enterprise analytics. Sources: 3rd party customer files Atlas Sales System Customer Order Entry (COE)	Jack Dooley	6	73	Administrator	2010-06-16 17:12:29.577	Administrator	2011-02-18 05:38:26.833	
2	2 - ODS	Operational Data Stores. The operational data store is used for point to point and downstream integration of customer sales data.	Jack Doodley	4	9	Administrator	2010-06-25 13:06:40.393	Administrator	2010-10-28 06:16:59.917	
3	4 - ODS-Gap Analysis	Perform GAP analysis between ODS and Source Systems	Jack Doodley	0	0	Administrator	2010-06-25 13:54:04.707	Administrator	2010-10-28 06:18:18.693	
4	Customer DataMart	Customer Data Mart	Jack Doodley	0	0	Administrator	2010-06-25 13:57:37.847	Administrator	2010-10-28 06:15:54.063	
5	Sales Data Mart	Sales DataMart	Gerry Jones	0	1	Administrator	2010-06-25 13:58:38.503	Administrator	2010-10-28 06:16:16.123	
6	BCSS-MT-EDW			3	4	Administrator	2012-02-07 08:32:09.177	Administrator	2012-02-07 08:32:09.177	
7	Adastra DataMart			0	1	Administrator	2010-10-15 09:08:08.423	Administrator	2010-10-28 06:14:27.88	
8	MD2-DataMart			0	1	Administrator	2010-10-25 12:40:30.027	Administrator	2010-10-25 12:40:30.027	
9	1 - HP CoreMgmt DataMart			0	0	Administrator	2010-10-28 06:13:30.9	Administrator	2010-10-28 06:17:45.93	
10	3 - ECI Data Warehouse			3	2	Administrator	2010-10-28 06:15:00.8	Administrator	2010-10-28 06:17:26.29	
11	Altis DataMart			0	0	Administrator	2010-10-28 06:15:34.097	Administrator	2010-10-28 06:15:34.097	
12	8 - x.12 EDI maps			0	0	Administrator	2010-10-28 06:20:54.227	Administrator	2010-10-28 06:20:54.227	
							2010-11-11		2010-11-11	

### Workspace Folder:

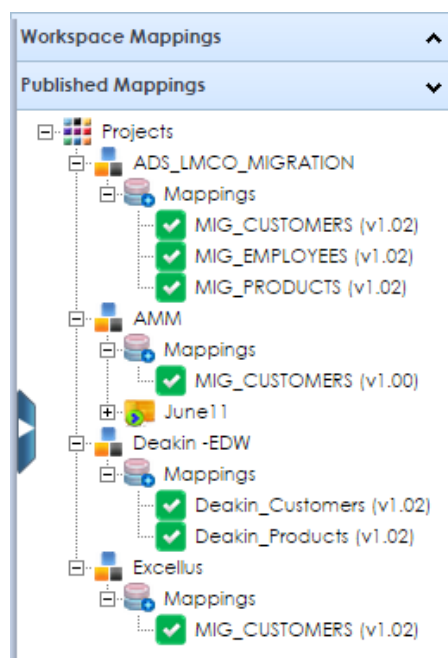
All mappings by default are available in a “Workspace” folder structure. This is the current Project tree that contains all active and archived mappings. All development activity like creating a new mapping, editing mapping specifications, deleting mappings will be performed in the Workspace folder.



## Publish Folder:

All published mappings will be available in a “Published” folder structure. A new tree structure is added to the existing Project tree to denote all published mappings. Published mappings are grouped and categorized into Integration Projects (similar to the Integration Projects displayed in the “Workspace” folder).

At least one mapping from a project needs to be published for that Project to display in the published folder.



A Mapping can be published by right clicking on the Mapping Name. Once a Mapping is published, the “Published” version of the Mapping gets moved into a “Published” folder and a new version is automatically created in the workspace. i.e., a snapshot of the mapping version being published is taken and that mapping can no longer be edited.

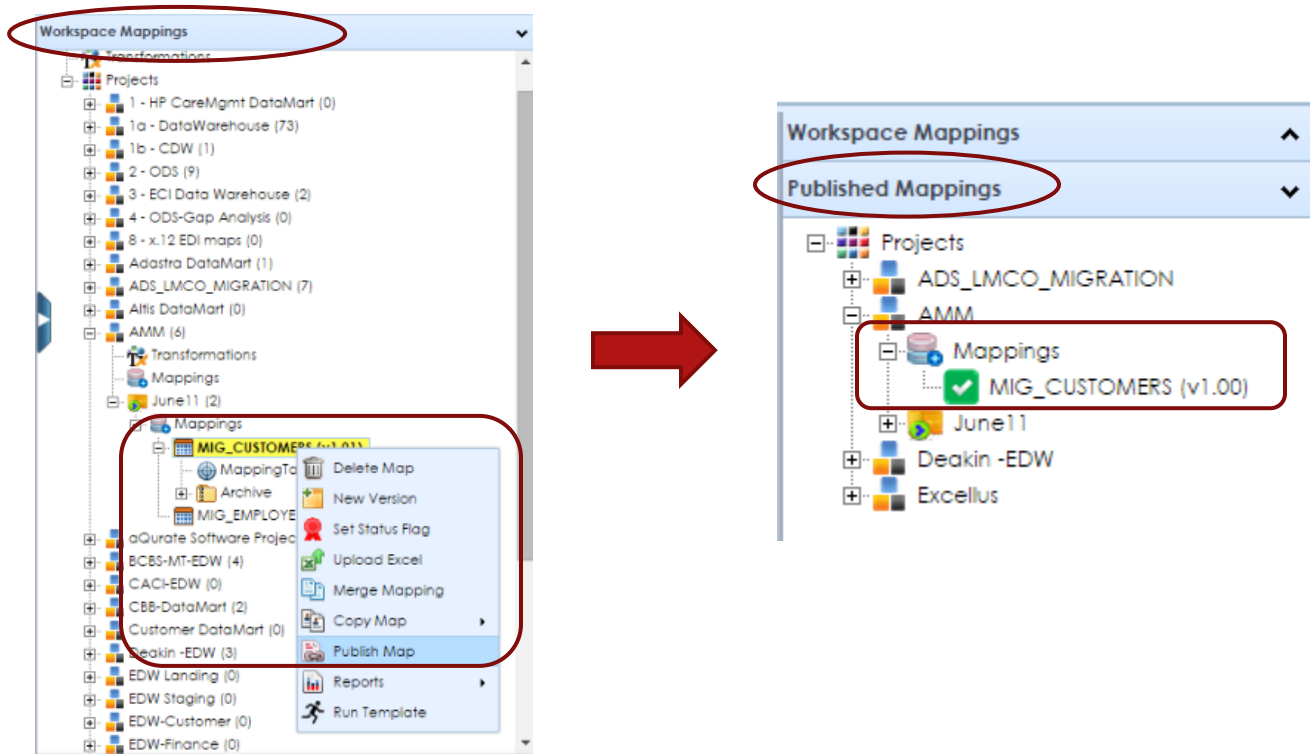
- The metadata Environment in the “Published” mapping will automatically be updated to the corresponding PROD environment whenever a mapping is published. This version will be archived.
- The New version created during the Publish process will still contain the older development metadata (state prior to publishing) for future development activities.

All previously published versions of the same mapping will be maintained in the repository and are displayed under the “History” folder.

Various versions of a Mapping can be published but only one version will be in the ACTIVE published mode at all times.

Change history of all previously published mappings will be maintained

Every Published mapping will be associated with an EFFECTIVE DATE and an EXPIRY DATE. (To identify when the mapping should be effectively visible in the publish folder and also to identify which is the most recently published version)



## Automatic Update of Metadata Environment during Publishing

Prior to publishing, every System Environment should be mapped to its corresponding PRODUCTION environment.

Based on the PRODUCTION environment assigned, whenever a mapping is published, the environment details in the mapping will be automatically updated to the corresponding PRODUCTION environment

The screenshot shows the Erwin System Catalogue on the left and the 'Edit Environment' dialog on the right. The 'System Catalogue' lists various metadata environments, with 'LMCO-PROD' highlighted in yellow. The 'Edit Environment' dialog shows the configuration for the selected environment. The 'Production Environment Name' dropdown is set to 'LMCO-PROD', which is circled in red. The 'Driver Name' is set to 'Metadata\_Template'.

S.No	Table Name	Table Alias	Table Class	Type	Logical Table Name	Synonym Reference
1	DimReseller			TABLE		
2	DimProduct			TABLE		
3	FactResellerSales			TABLE		
4	vTimeSeries			TABLE		
5	DimGeography			TABLE		
6	DimEmployee			TABLE		

**Edit Environment**

System Environment Name\*: LMCO-DEV

System Environment Type\*: DEV

Server Platform:

Server OS Version:

File Management Type:

File Location:

Production System Name: LMCO

Production Environment Name: LMCO-PROD

DataBase Type\*\*: MS Excel File

Driver Name\*\*: Metadata\_Template

Note : If you change database type your data[table] will be considered as changed database type.

Intended Use Description:

## How the PUBLISH feature will work

1

### Current Workspace Mapping “State” prior to being PUBLISHED

Src System	Src Environment	Src Table	Src Column	Business Rule	Tgt System	Tgt Environment	Tgt Table	Tgt Column
Claims	CLAIMS_PROD	Employees	EmpID	DirectMove	EDW	EDW_DEV	Employees	EmpID
Claims	CLAIMS_PROD	Employees	EmpName	LTRIM	EDW	EDW_DEV	Employees	EmpName
Claims	CLAIMS_PROD	Employees	Address	RTRIM	EDW	EDW_DEV	Employees	Address
Claims	CLAIMS_PROD	Employees	BirthDate		EDW	EDW_DEV	Employees	BirthDate

Source Environment will be updated with the corresponding PRODUCTION environment

Target Environment will be updated with the corresponding PRODUCTION environment

Src System	Src Environment	Src Table	Src Column	Business Rule	Tgt System	Tgt Environment	Tgt Table	Tgt Column
Claims	CLAIMS_PROD	Employees	EmpID	DirectMove	EDW	EDW_PROD	Employees	EmpID
Claims	CLAIMS_PROD	Employees	EmpName	LTRIM	EDW	EDW_PROD	Employees	EmpName
Claims	CLAIMS_PROD	Employees	Address	RTRIM	EDW	EDW_PROD	Employees	Address
Claims	CLAIMS_PROD	Employees	BirthDate		EDW	EDW_PROD	Employees	BirthDate

2

### PUBLISHED Mapping which is archived. This will show under “Archives” in the Workspace and as ACTIVE under the “Published” tree

Src System	Src Environment	Src Table	Src Column	Business Rule	Tgt System	Tgt Environment	Tgt Table	Tgt Column
Claims	CLAIMS_PROD	Employees	EmpID	DirectMove	EDW	EDW_DEV	Employees	EmpID
Claims	CLAIMS_PROD	Employees	EmpName	LTRIM	EDW	EDW_DEV	Employees	EmpName
Claims	CLAIMS_PROD	Employees	Address	RTRIM	EDW	EDW_DEV	Employees	Address
Claims	CLAIMS_PROD	Employees	BirthDate		EDW	EDW_DEV	Employees	BirthDate

3

### New Editable version which is same as the version prior to being PUBLISHED

## 15. License Settings

Upon installation or upgrade you will need to update your license key of the Mapping Manager. The mapping manager comes delivered with a default license which will allow you to login and use the solution, If you do not have your license key please your erwin sales rep.

In this section, you will learn:

- ✓ How to decipher the license key and understanding the licensing model
- ✓ Upgrading and updating your License Key
- ✓ Importing and updating your license key after evaluation

### 14.1 How to decipher the license key and understanding the licensing model

#### Default License Settings:



Company Name:	
Allowed Projects:	Unlimited
Allowed Subjects Per Project:	Unlimited
Codeset Manager:	Enabled
Release Manager:	Enabled
Reference Data Manager:	Enabled
Code Automation Templates:	Enabled
Test Manager:	Enabled
Requirements Manager:	Enabled
Reporting Manager:	Enabled
Business Glossary Manager:	Enabled
Business Policies Manager:	Enabled
Business Rules Manager:	Enabled
Allowed Users:	Unlimited
Concurrent Logins Allowed:	Unlimited
User Multi Login Allowed:	No
License Created On:	
Validity:	

### License Terms and Definitions:

**Company Name:** This is the Company Name which you registered with us. If you are using Mapping Manager with the default license, it will default to as mentioned above. It will appear in all the reports you generate using the Mapping Manager on Top Right corner.

**Allowed Project Count:** This is the count of Projects you can create using Mapping Manager.

**Allowed User Count:** This is the count of Users you can create using Mapping Manager.

**Concurrent Logins Allowed:** At any point of time, Mapping Manager will not allow more than these many users to login.

**User Multi Login Allowed:** If this is allowed in your license, then the same user name can be used to login more than once. This will make Mapping Manager count once for any number of logins for the same user in "Simultaneous Logins Allowed," if active.

**License Created On:** This is the license creation date. This will default to the build date.

**Evaluation Days:** This is the count of days you can evaluate Mapping Manager from the License Date.

**Evaluation End Date:** Depending on the License Date and Evaluation Days, your Evaluation End Date is displayed for your convenience.

**Allowed Subjects Count:** This is the count of Subjects you can create within a Project using Mapping Manager. *This feature is only available for the product running on an Enterprise License.*



*Number of Subjects include nested Subjects (i.e. subject within subject) within Projects/Subjects*

## 14.2 Upgrading and updating your license key

Please contact AnalytiX Customer Support at [www.analytixds.com](http://www.analytixds.com) to get a valid updated license for your company. Once you get the file, follow the steps below to activate it

- Login into your Mapping Manager with Administrator or Power User Role
- On the Launcher pad, Click on Settings Icon and Click on License, this will open the License Import Page.
- Copy and Paste the License Content here.
- Click Activate License.

Paste your License Key in the Text Box and click the "Activate License" button.

License
Apply New License

Title	Value
Company Name:	8.0 Evaluation License
Allowed Projects:	Unlimited
Allowed Subjects Per Project:	Unlimited
CodeSet Manager:	Enabled
Release Manager:	Enabled
Reference Data Manager:	Enabled
Code Automation Templates:	Enabled
Data Quality Assessment:	Enabled
Test Manager:	Enabled
Requirement Manager:	Enabled
Sensitive Data Discovery:	Enabled
Reporting Manager:	Enabled
Business Glossary Manager:	Enabled
Allowed Users:	Unlimited
Concurrent Logins Allowed:	Unlimited
User Multi Login Allowed:	No
License Created On:	Wed Jan 04 23:15:57 IST 2017
Evaluation Days:	15
Evaluation End Date:	Thu Jan 19 23:15:57 IST 2017

Paste License

Activate License

Mapping Manager will parse the License and will activate your product. Mapping Manager will save the license file as MappingManager.lic in your Tomcat directory so that it can reload it, when you restart your application. If for any reason your local license copy cannot be saved (permission error on tomcat directory), it will be notified to you as in the dialog box shown.

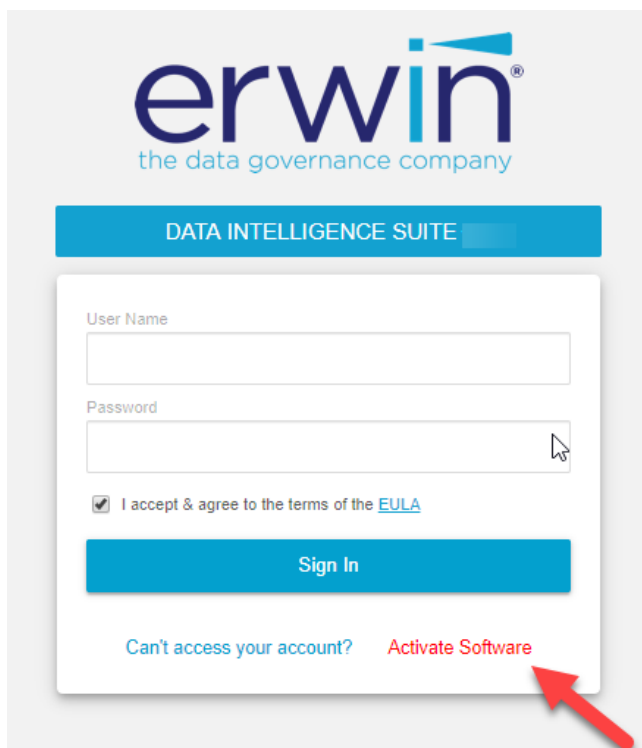
*At this point your License is fully activated. And it will remain so, until you restart your application.*

The common reason for failure of saving license file could be that the System User does not have privileges to create file in Tomcat directory. You can directly create the file in one of the locations mentioned in the above dialog. Or give permissions for the current user to create files in the above mentioned directory. Should you encounter this situation, your System Administrator or tomcat administrator should be able to assist in this scenario.

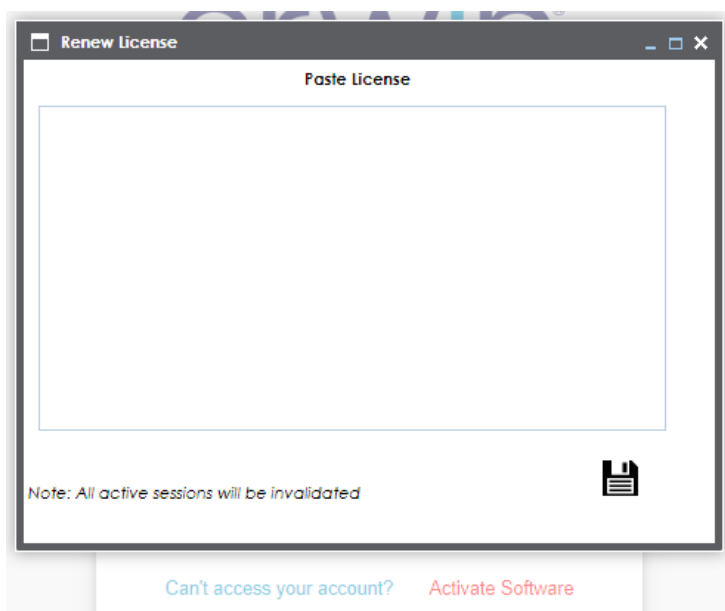
### 14.3 Importing and updating your license key after evaluation

Once your evaluation period has expired, you will not be able to login into the Mapping Manager with any role based user id. You will see following message **“Your Evaluation is expired”**.

1. Once you have a valid license key, go to the login screen, click the **“Activate Software”** link
2. In the popup screen, copy and paste the text from the license key file and click the Save icon
3. Your software version is re-activated and ready for use.



The image shows the Erwin login interface. At the top is the Erwin logo with the tagline 'the data governance company'. Below it is a blue bar labeled 'DATA INTELLIGENCE SUITE'. The main login form contains fields for 'User Name' and 'Password', a checkbox for 'I accept & agree to the terms of the EULA', and a blue 'Sign In' button. At the bottom of the form, there are two links: 'Can't access your account?' and 'Activate Software'. A red arrow points to the 'Activate Software' link.



The image shows a 'Renew License' dialog box. The title bar says 'Renew License'. The main area is titled 'Paste License' and contains a large text area for pasting the license key. At the bottom left, there is a note: 'Note: All active sessions will be invalidated'. At the bottom right, there is a save icon (a floppy disk). Below the dialog box, the 'Activate Software' link from the previous screen is visible.

*If your license is successfully applied, the system will log you out and prompt for re-login.*

## 16. User Defined Fields

The following user defined fields have been provided across Mapping Manager to help document custom fields and values

### Mapping Level:

Subject Area Level - 50 User Defined fields

Mapping Overview Level—40 User Defined Fields

Mapping Specification Level—50 User Defined Fields

### Metadata Level:

Table level—10 User Defined fields

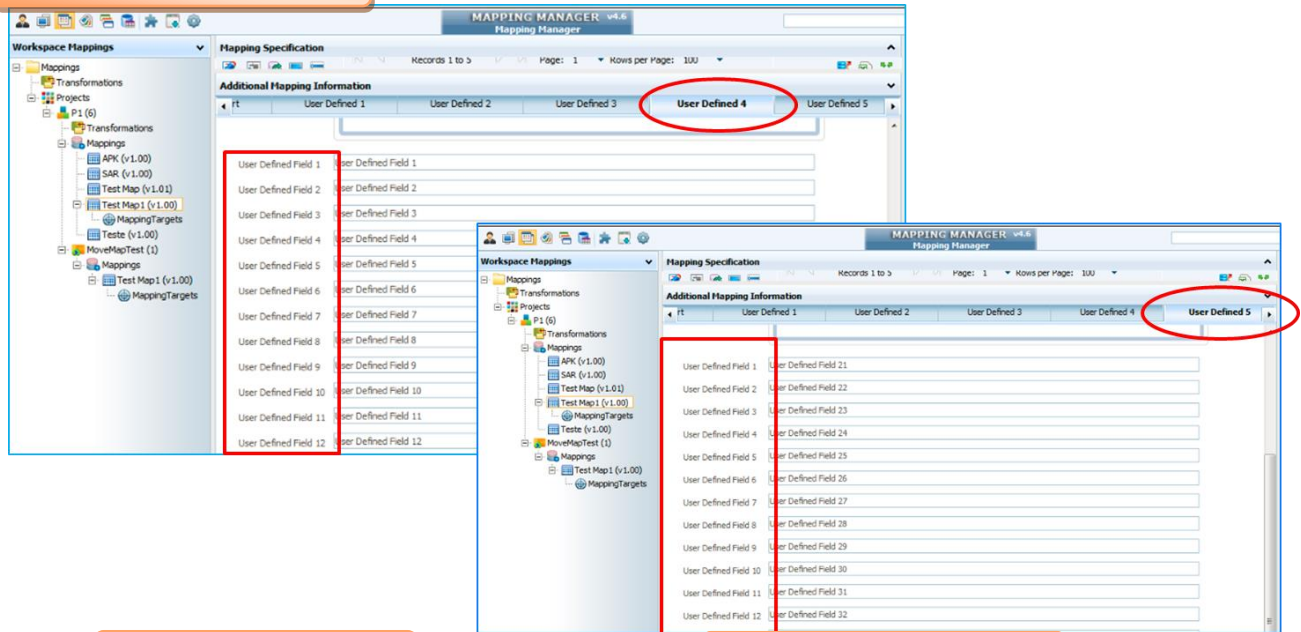
Column Level—10 User Defined fields

#### Subject level

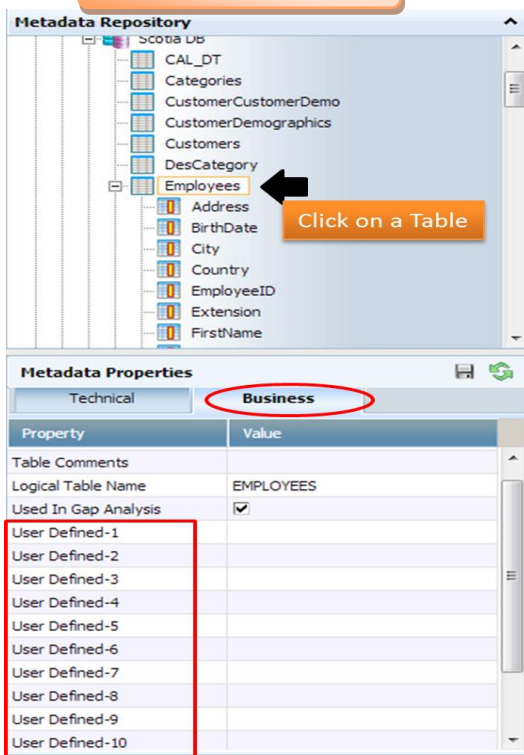
#### Mapping Spec Level

Map Sequence Id	User Defined-1	User Defined-2	User Defined-3	User Defined-4	User Defined-5	User Defined-6	User Defined-7	User Defined-8	User Defined-9	User Defined-10
5025										
5026										
5027										
5028										
5029										
5030										
5031										
5032										
5033										

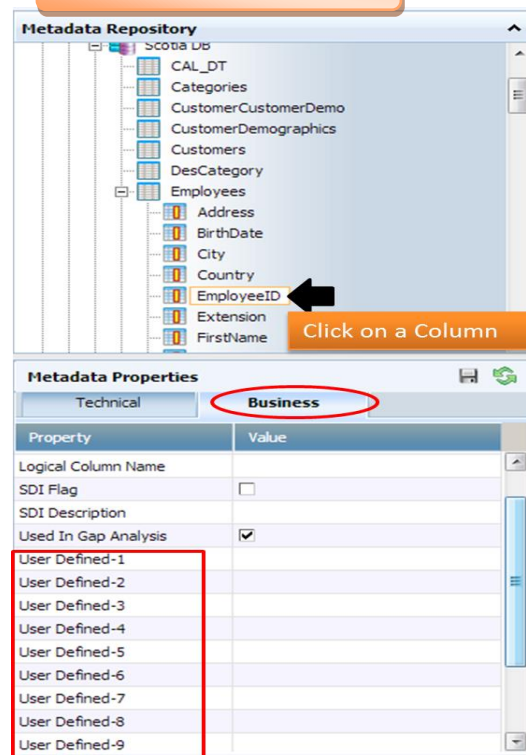
## Mapping Overview Level



## Metadata—Table level



## Metadata—Column level



## Enabling User Defined Fields:

The User Defined fields in the Mapping Spec Grid are enabled by default. All other user defined fields at the Subject level, Mapping Overview Level and Table/Column metadata level are disabled by default.

To enable these user defined fields, go into the Settings —> Mapping Manager -->User Defined Fields tab and select the checkboxes corresponding to the section that you want to enable

## Renaming User Defined Fields:

The User Defined fields across Mapping Manager can be renamed and used according to your preference. To rename the user defined fields, Click into the Settings icon—> Miscellaneous —> Language Settings tab and expand the “User Defined Flex Fields” node.

Go into the corresponding level and rename the user defined fields by double clicking the corresponding cell in under the “ENGLISH” column. Click the save icon when done

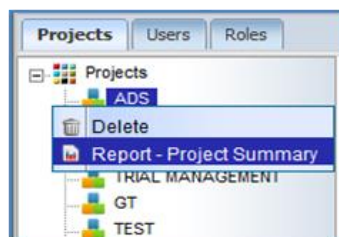
Rename the required fields by double clicking the corresponding cell.

In this example, User Defined fields 1 and 3 have been renamed to Requirements and Test Script accordingly.

Click the save icon at the top of this grid when done.

## 17. Canned Reports

**Project Summary Report:** Resource Manager → Projects → Context Menu → Project Report



Project Summary Report. Grouped Report on the Project Details, Project Users, Contact Information & Project Documents

Analytix

Project Report										
Project Summary										
Sl.	Project Name	Description	IT Sponsor			Cost Center		Project Manager	Business Sponsor	
1	EDW									
Project User Details										
#	User ID	Full Name	Mobile	Telephone	Email	User Manager	Company	Job Role	Project Role	Responsibilities
1	briank	Brian K			briank@gt.com				Mapping Designer	
2	ks123	ka			test@test.com				Mapping Admin	dggdfgdfgdfgdfg
3	pavan	pavan			test@test.com				Mapping Designer	
4	public	public - Default System User	9999999999	9999999999	abc@abc.com		Analytix Data Services	Guest User	public	
5	rakesht	Rakesh			rakesh123				Mapping Designer	
6	tester	tester			test@analytixds.com				Tester	
Project Documents Summary										
#	Document Name		Document Owner		Document Object		Document Status		Document Intended Use	
1	sdsdsd				C:/MappingManager/Projects/EDWCSC_TEST.xls		InProgress			

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**Resource Activity Report:** Resource Manager → Users → Context Menu → Resource Activity Report

Enables ability to see mapping activity across resources to see if they are overloaded and provides an individual mapping status for individuals.

Sums the number of mappings assigned to a resource with status and displays a detail report for each Resource

Users

Roles

Users Tree

Users

Administrator

baylan

bmarley

denver

jennon

martin

John Doe

kcobain

manningm

mboagb

mshinoda

public

rflatts

stenedict

shiva

tjones

View User

Resource Activity

User Activity Report for John Doe

2Project(s) Assigned To

1Enterprise Role(s)

1Mapping(s) Created

1Mapping(s) Updated

8Mapping(s) Assigned To

April 22 2016Last Activity On

Mapping Assignment - By Role

3

4

1

Designer - 3

Approver - 4

ETL Developer - 1

Tester - 0

Mapping Assignment - By Status

4

1

2

1

0

Complete - 0

Pending Review - 1

In Progress - 2

On Hold - 1

Not Started - 4

Mapping Assignment Summary

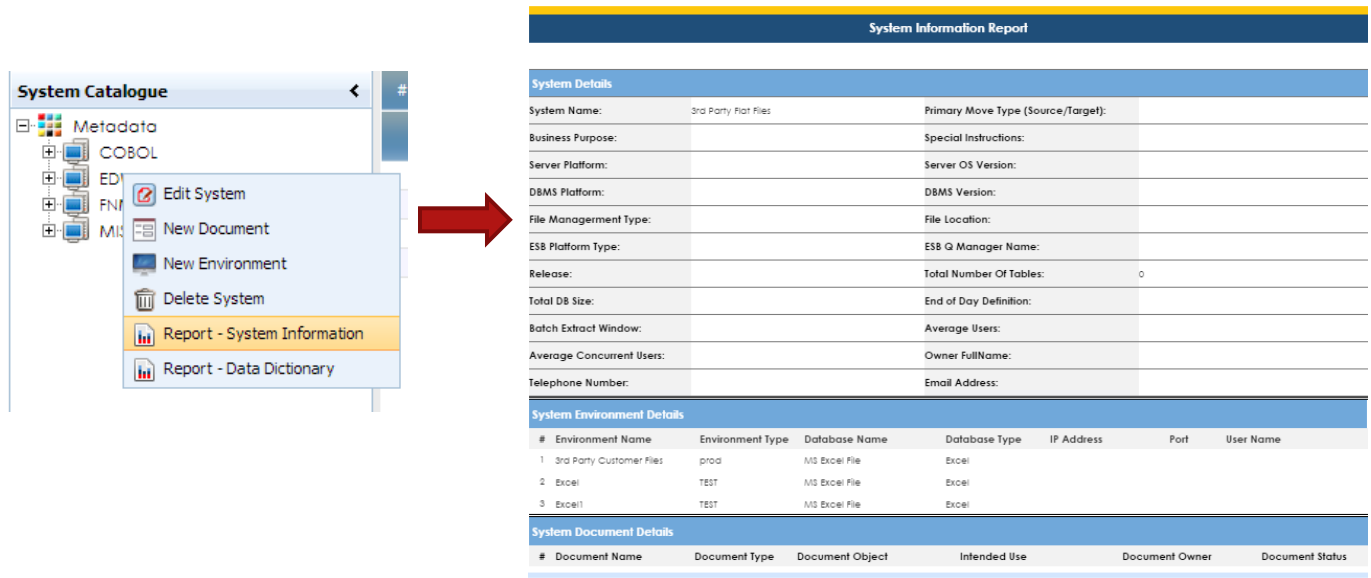
#	Map Name	Version	Description	Role	Status	Created By	Created Date	Last Modified By	Last Modified Date
1	L_Customers	1.00		Mapping Approver	In Progress	Administrator	2015-03-16 09:35:19.023	Administrator	2016-04-22 23:11:18.797
2	L_Customers	1.00		Mapping Designer	Pending Review	Administrator	2015-03-16 09:35:19.023	Administrator	2016-04-22 23:11:18.797
3	CBA_Customers	1.00		Mapping Designer	Not Started	Administrator	2015-03-16 21:06:38.353	Administrator	2016-04-26 19:18:43.397
4	CBA_Customers	1.00		Mapping ETL Developer	Not Started	Administrator	2015-03-16 21:06:38.353	Administrator	2016-04-26 19:18:43.397

**System Information Report:** Metadata Manager → System → Report – System Information

The formatted systems analysis report will is good enough to satisfy any source systems analysis documentation

which may be required by a the program management office. The report capture the business purposes, technical details surrounding the system, all the environments (development, test and product) as well as system documentations

System report is displayed below as follows.



**System Catalogue**

- Metadata
  - COBOL
  - EDW
  - FACETS
  - ODS
- 3rd Party Flat Files
  - Edit System
  - New Document
  - New Environment
  - Delete System
  - Report - System Information
  - Report - Data Dictionary

**System Information Report**

**System Details**

System Name:	3rd Party Flat Files	Primary Move Type (Source/Target):	
Business Purpose:		Special Instructions:	
Server Platform:		Server OS Version:	
DBMS Platform:		DBMS Version:	
File Management Type:		File Location:	
ESB Platform Type:		ESB Q Manager Name:	
Release:		Total Number Of Tables:	0
Total DB Size:		End of Day Definition:	
Batch Extract Window:		Average Users:	
Average Concurrent Users:		Owner FullName:	
Telephone Number:		Email Address:	

**System Environment Details**

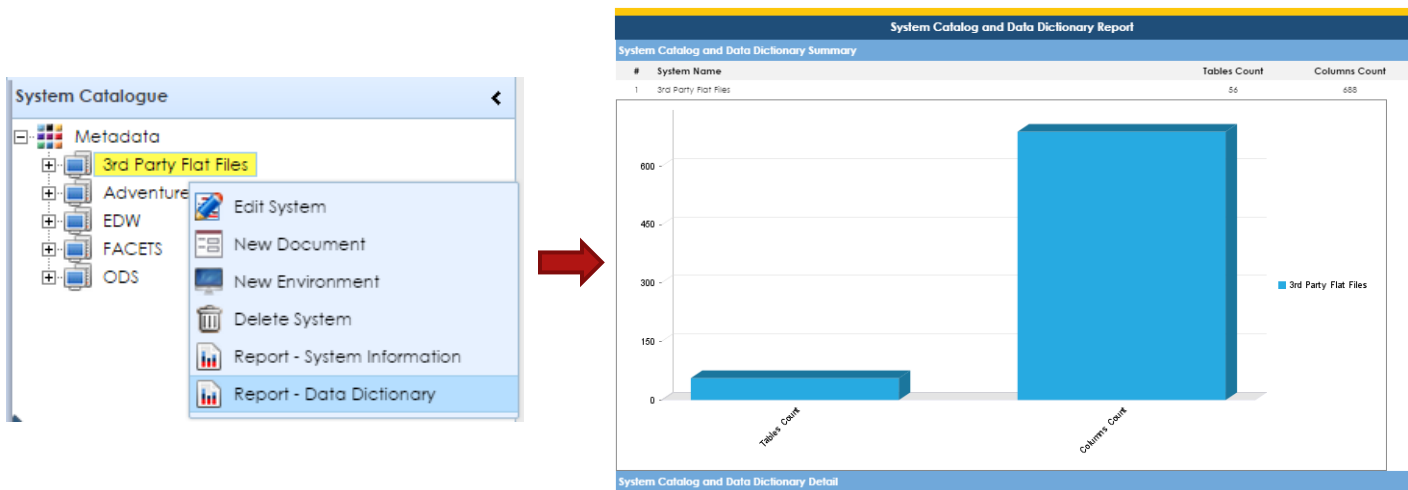
#	Environment Name	Environment Type	Database Name	Database Type	IP Address	Port	User Name
1	3rd Party Customer Files	prod	MS Excel File	Excel			
2	Excel	TEST	MS Excel File	Excel			
3	Excel	TEST	MS Excel File	Excel			

**System Document Details**

#	Document Name	Document Type	Document Object	Intended Use	Document Owner	Document Status
---	---------------	---------------	-----------------	--------------	----------------	-----------------

### Data Dictionary Report: Metadata Manager → System → Report – Data Dictionary

Allows user to select a system and environment and print the system catalog and business data dictionary for any system.



**System Catalogue**

- Metadata
  - 3rd Party Flat Files
  - Adventure
  - EDW
  - FACETS
  - ODS
- 3rd Party Flat Files
  - Edit System
  - New Document
  - New Environment
  - Delete System
  - Report - System Information
  - Report - Data Dictionary

**System Catalog and Data Dictionary Report**

**System Catalog and Data Dictionary Summary**

#	System Name	Tables Count	Columns Count
1	3rd Party Flat Files	56	688

**System Catalog and Data Dictionary Detail**

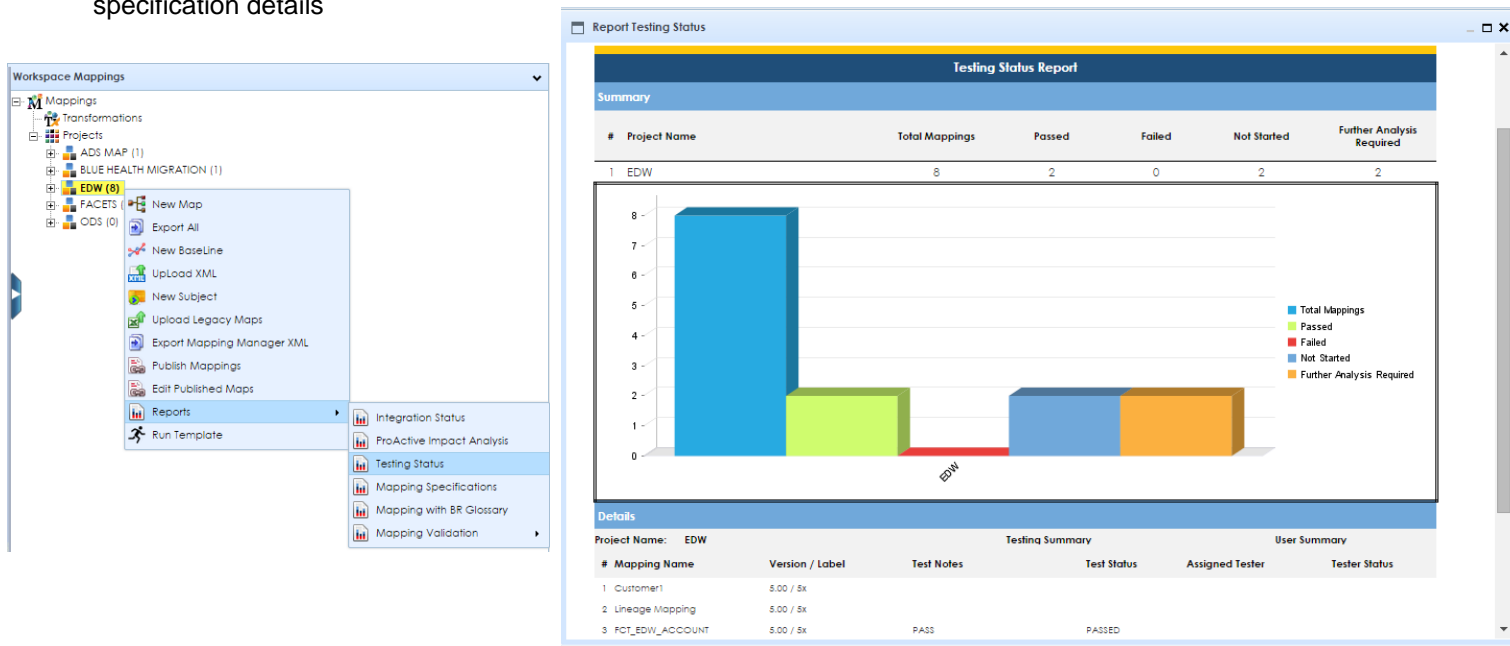
Bar chart showing Tables Count and Columns Count for 3rd Party Flat Files.

Metric	Value
Tables Count	56
Columns Count	688



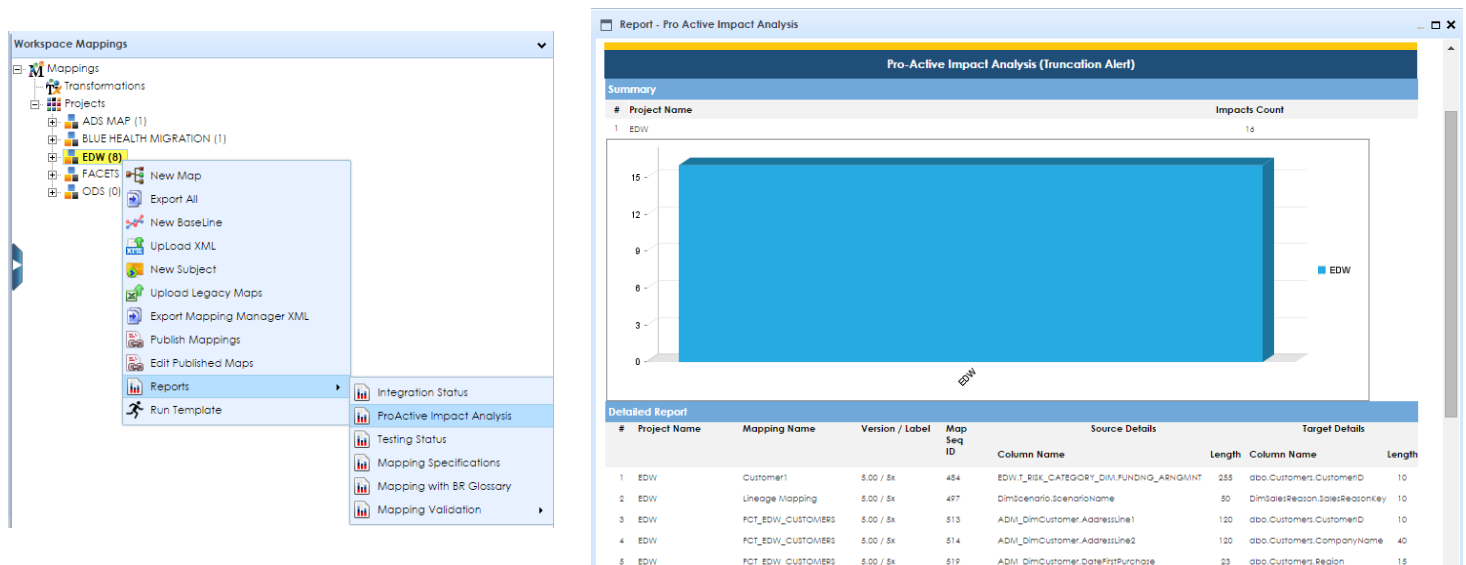
## Testing Status Report: Mapping Manager → Project → Context Menu → Report – Testing Status

Counts the number of mapping specification for a project and groups by the testing dispositions in the mapping specification details



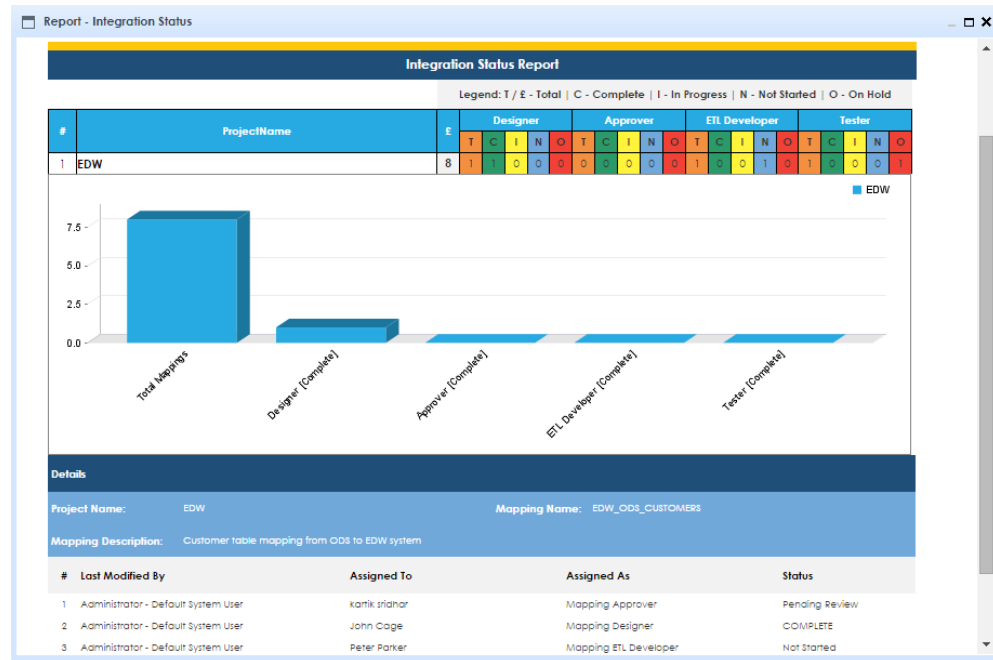
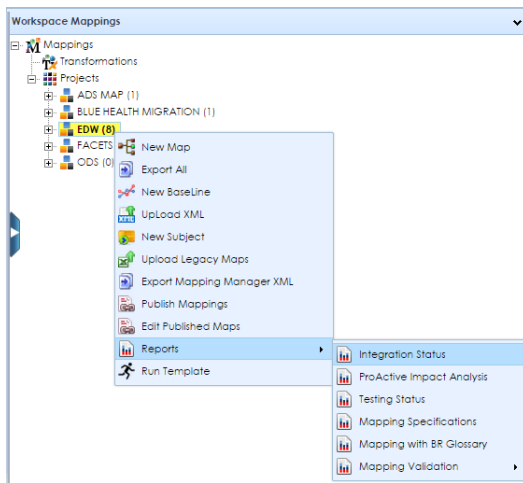
## Pro-Active Impact Analysis Report: Mapping Manager → Project → Context Menu → Report – ProActive Impact Analysis

Lists all mappings where the source data type length is longer than the target data type length

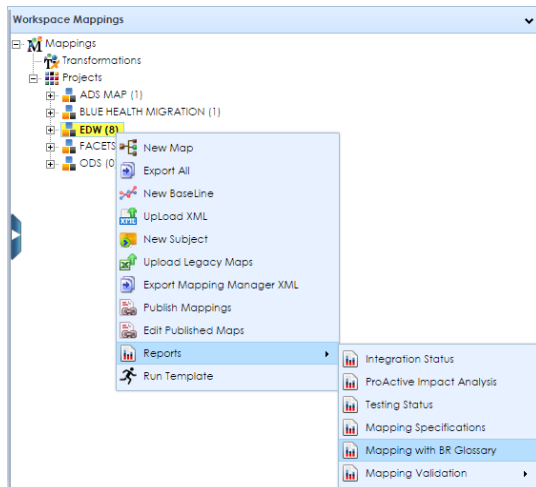


**Integration Status Report:** Mapping Manager ➡ Project ➡ Context Menu ➡ Report – Integration Status

Quickly see the total number of mappings in a project and the workflow status of how the mappings are assigned across the entire workflow process (Mapping Analyst, Mapping Approver, ETL Developer and QA Analyst).



**Mapping Report with Business Rule Glossary:** Mapping Manager ➡ Project ➡ Context Menu ➡ Report – Mapping with BR Glossary (In PDF, EXCEL and RTF formats)

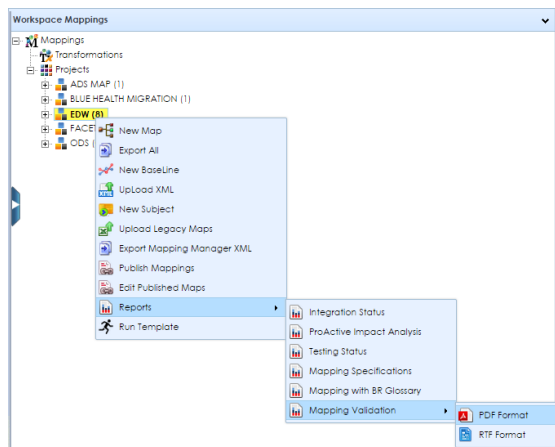


**Mapping With Business Rule Glossary Report**

#	Table Name	Source Column Name	Data Type	Length	Table Name	Target Column Name	Data Type	Length	Business Rule Link	Complete Flag
1	dbo.Categories	CategoryID	int	4						N
2	dbo.Categories	CategoryName	nvarchar	15						N
3	dbo.Categories	Description	ntext	16						N
4	dbo.Categories	Picture	image	16						N
5	Address	PostalCode	nvarchar	15					RTRIM	N
6	Address	ModifiedDate	datetime	23						N
7	Address	City	nvarchar	30					LTRIM	N
8	Address	AddressLine2	nvarchar	60						N
9	Address	AddressLine1	nvarchar	60						N
10	dbo.Customers	Address	nvarchar	60	dbo.Customers	Address	nvarchar	60	BR_794	N
11	dbo.Customers	City	nvarchar	15	dbo.Customers	City	nvarchar	15	RTRIM	N
12	dbo.Customers	CompanyName	nvarchar	40	dbo.Customers	CompanyName	nvarchar	40		N
13	dbo.Customers	ContactName	nvarchar	30	dbo.Customers	ContactName	nvarchar	30	BR_792	N
14	dbo.Customers	ContactTitle	nvarchar	30	dbo.Customers	ContactTitle	nvarchar	30	TO_FLOAT	N
15	dbo.Customers	Country	nvarchar	15	dbo.Customers	Country	nvarchar	15		N
16	dbo.Customers	CustomerID	nchar	10	dbo.Customers	CustomerID	nchar	10	BR_790	N
17	dbo.Customers	Phone	nvarchar	24	dbo.Customers	Phone	nvarchar	24	BR_798	N
18	dbo.Customers	PostalCode	nvarchar	10	dbo.Customers	PostalCode	nvarchar	10		N
19	dbo.Customers	Region	nvarchar	15	dbo.Customers	Region	nvarchar	15		N

**Mapping Validation Report:** Mapping Manager ➡ Project ➡ Context Menu ➡ Report – Mapping Validation

This report highlights the difference in the mapping metadata VS actual metadata. All mismatches are highlighted in RED background color (In PDF and RTF formats).




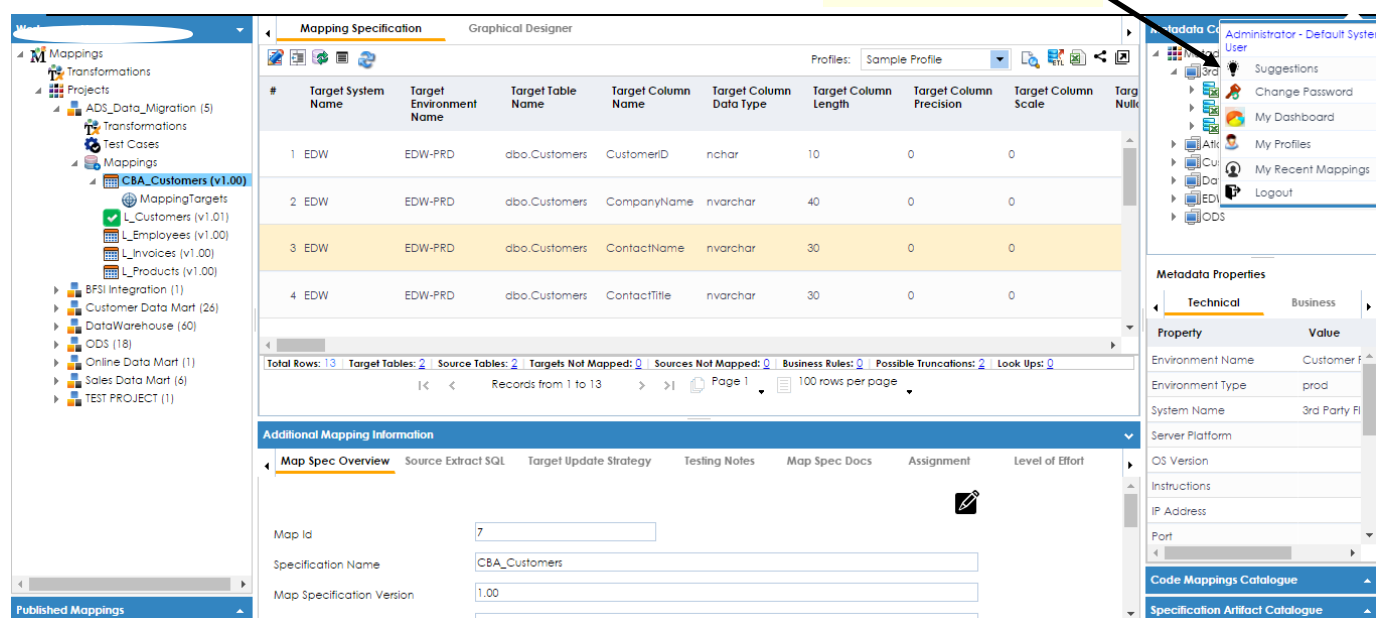
Mapping Name: L_CW_ADS										
#	Source Details					Target Details				
	System	Environment	Table	Column	Datatype	System	Environment	Table	Column	Datatype
214	GT System	GT Database	Customers	Address	nvarchar	AMM Finance System	Scotia DB	Customers	Address	nvarchar
215	GT System	GT Database	Customers	City	nvarchar	AMM Finance System	Scotia DB	Customers	City	nvarchar
216	GT System	GT Database	Customers	CompanyName	nvarchar	AMM Finance System	Scotia DB	Customers	CompanyName	nvarchar
217	GT System	GT Database	Customers	ContactName	nvarchar	AMM Finance System	Scotia DB	Customers	ContactName	nvarchar
218	GT System	GT Database	Customers	ContactTitle	nvarchar	AMM Finance System	Scotia DB	Customers	ContactTitle	nvarchar
219	GT System	GT Database	Customers	Country	nvarchar	AMM Finance System	Scotia DB	Customers	Country	nvarchar
220	GT System	GT Database	Customers	CustomerID	nchar	AMM Finance System	Scotia DB	Customers	CustomerID	nchar
221	GT System	GT Database	Customers	Fax	nvarchar	AMM Finance System	Scotia DB	Customers	Fax	nvarchar
222	GT System	GT Database	Customers	Phone	nvarchar	AMM Finance System	Scotia DB	Customers	Phone	nvarchar
223	GT System	GT Database	Customers	PostalCode	nvarchar	AMM Finance System	Scotia DB	Customers	PostalCode	nvarchar
224	GT System	GT Database	Customers	Region	nvarchar	AMM Finance System	Scotia DB	Customers	Region	nvarchar
225	BCBS-BCBS	BCBS-DB	Employees	FirstName	nvarchar	AMM Finance System	Scotia DB	Employees	FullName	
226	AMM-CSM	CSM	CSM_CODESET	CODESET_ID	text	HP-POL	HP-DB	DesCategory	DesCitizenId	int
227	AMM-CSM	CSM	CSM_CODESET	CODESET_ID	bigint	HP-POL	HP-DB	DesCategory	DesEmployeeAge	int

## Contribute to Mapping Manager

### Request New Product features:

From the Mapping Manager software, users can now directly request for new features and contribute to the product roadmap. The request for new features will be reviewed by the product development team and prioritized for a future release

Product Enhancement




The screenshot displays the Erwin Mapping Manager interface. On the left is a navigation pane with a tree view of mappings and projects. The main area is titled 'Mapping Specification' and contains a table with mapping details. Below the table is a summary row and a section for 'Additional Mapping Information'. On the right, a user menu is open, showing options like 'Suggestions', 'Change Password', and 'My Dashboard'. A yellow callout box labeled 'Product Enhancement' with an arrow points to the 'Suggestions' option in the user menu.

#	Target System Name	Target Environment Name	Target Table Name	Target Column Name	Target Column Data Type	Target Column Length	Target Column Precision	Target Column Scale	Target Null
1	EDW	EDW-PRD	dbo.Customers	CustomerID	nchar	10	0	0	
2	EDW	EDW-PRD	dbo.Customers	CompanyName	nvarchar	40	0	0	
3	EDW	EDW-PRD	dbo.Customers	ContactName	nvarchar	30	0	0	
4	EDW	EDW-PRD	dbo.Customers	ContactTitle	nvarchar	30	0	0	

Summary: Total Rows: 13 | Target Tables: 2 | Source Tables: 2 | Targets Not Mapped: 0 | Sources Not Mapped: 0 | Business Rules: 0 | Possible Truncations: 2 | Look Ups: 0

Additional Mapping Information:

- Map Id: 7
- Specification Name: CBA\_Customers
- Map Specification Version: 1.00